Public Service Company of New Hampshire
Docket No. DE 11-250

Technical Session TS-01
Dated: 01/23/2012
Q-TECH-001
Page 1 of 7

Witness: Robert A. Baumann
Request from: New Hampshire Public Utilities Commission Staff

Question:
Re: OCA-01, Q-OCA-009: Please update the response to show what the proposed rate would be using an April 1, 2012 effective date instead of a March 1, 2012 effective date.

Response:
The April-December 2012 ES rate calculation below uses the data from the 12/14/11 updated RAB attachments filed in Docket No. DE 11-215, as further updated to take into account Order 25,313. Per Order No. 25,313, the ES rate of 8.31¢/kwh was set to recover the forecasted January and February 2012 ES costs and the 2011 ES under collection. This resulted in an ES rate for the period April through December 2012 of 9.35¢/kWh, consisting of 1.58¢/kwh for the recovery of Merrimack Scrubber costs and 7.77¢/kwh for all remaining non-scrubber ES costs.

<u>ES rate for the period April - December 2012 without the Scrubber costs (in thousands of dollars) as filed on 12/14/11:</u>

1. ES costs	$296,024	See attached page 3 & 4, line 24
2. March Over recovery	(2,064)	[(7.82-8.31) x 421,234 (1)
3. Total ES Costs	$293,952	
4. ES MWH sales	3,784,328	See attached page 3 & 4, line 26
5. ES Rate[L3 / L4]	7.77¢/kWh	

(1)The approved ES rate per Order No. 25,313 is 8.31¢/kwh while the forecasted cost for March 2012 is 7.82¢/kwh which results in a forecasted over recovery of $2,064 in March 2012.

<u>ES rate for the period April-December 2012 for Scrubber costs only (in thousands of dollars) as filed on 12/14/11:</u>

6. Jan. thru Mar. 2012 under recovery	$14,091	See attached page 6, line 19 & page 7, line 23
7. April-December 2012 cost	$41,409	See attached page 6, line 19 & page 7, line 23
8. Total 2012 scrubber cost	$55,500	Line 6 plus line 7
9. 3 Yr. amortization of 2011 scrubber under recovery	$ 4,367	See attached page 5, line 21
10. Total scrubber cost	$59,867	Line 8 plus line 9
11. ES MWH sales	3,784,328	Line 4
12. ES Rate - Scrubber	1.58¢/kWh	Line 10 divided by line 11
13. Total April-December 2012 ES rate	9.35¢/kWh	Line 5 plus line 12

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Attachment RAB-1
Page 1

1 **PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE**
2 **2012 ENERGY SERVICE RATE CALCULATION**
3 **(Dollars in 000's)**

Line	Summary of Forecasted Energy Service Cost For January 2012 Through December 2012	TOTAL COST	Cents per KWH	Reference
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
25	Total Forecasted Energy Service Cost	$ 400,687	$ 7.87	
27	2011 ES Over/Under Recovery	2,155	0.04	Attachment RAB-3, page 1
29	Net Forecasted Energy Service Cost	$ 402,843		
31	Forecasted Retail MWH Sales	5,093,934	7.90	
34–35	Forecasted Energy Service Rate - 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)

		Excluded						
		January 2012 Estimate	February 2012 Estimate	March 2012 Estimate	April 2012 Estimate	May 2012 Estimate	June 2012 Estimate	Reference
10	**Energy Service Cost**							
11								
12	Fossil energy costs	$ 16,975	$ 14,604	$ 8,472	$ 138	$ 647	$ 1,059	RAB-2, P3
13	F/H O&M, depreciation & taxes	10,173	8,991	9,594	12,051	9,756	10,184	RAB-2, P5
14	Return on rate base	3,489	3,466	3,419	3,381	3,357	3,360	RAB-2, P6
15	ISO-NE ancillary (inc. Congestion and Loss Adj.)	666	563	331	125	99	102	RAB-2, P3
16	Capacity	953	953	953	1,017	1,017	836	RAB-2, P3
17	NH RPS	1,389	1,256	1,254	1,148	1,155	1,242	RAB-2, P3
18	RGGI costs	459	419	226	-	-	7	RAB-2, P3
19	Vermont Yankee	716	671	716	-	-	-	RAB-2, P3
20	IPP costs (1)	2,810	2,400	2,118	1,772	1,588	1,415	RAB-2, P4
21	Purchases and sales	77	698	5,849	12,598	12,095	14,110	RAB-2, P3
22	Return on ES Deferral	2	2	2	3	4	2	
23								
24	Total Energy Service Cost	$ 37,708	$ 34,022	$ 32,933	$ 32,233	$ 29,720	$ 32,317	
25								
26	Forecasted Retail MWH Sales	466,483	421,889	421,234	385,576	388,084	417,308	
27								
28	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.

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

		July 2012 Estimate	August 2012 Estimate	September 2012 Estimate	October 2012 Estimate	November 2012 Estimate	December 2012 Estimate	Total	Reference
10	**Energy Service Cost**								
11									
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)	
23									
24	Total Energy Service Cost	$ 32,885	$ 36,905	$ 33,375	$ 32,405	$ 31,440	$ 34,745	$ 400,687	
25									
26	Forecasted Retail MWH Sales	480,185	464,249	404,219	397,201	401,322	446,182	5,093,934	
27									
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.

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Attachment RAB-5
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1 **PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE**
2 **2012 ENERGY SERVICE RATE CALCULATION**
3 **MERRIMACK SCRUBBER IMPACT**
4 **(Dollars In 000's)**

Line			Merrimack Scrubber	
11	**Summary of Forecasted Energy Service**		**Merrimack Scrubber**	
12	**Cost For January 2012 Through December 2012**		**Total cost**	**Reference**
14	Merrimack Scrubber O&M, Fuel and Avoided SO2 cost	$	6,671	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		34,801	Attachment RAB-5, page 3
19	Total Forecasted Merrimack Scrubber Cost	$	55,500	
21	Amortization of 2011 Merrimack Scrubber Under Recovery		4,367	Line 44 below
23	Net Forecasted Merrimack Scrubber Cost	$	59,867	
25	Forecasted Retail MWH Sales		5,093,934	
28	Forecasted Energy Service Merrimack Scrubber Rate Impact			
29	cents Per KWH (line 23 / Line 25)		1.18	
31	Energy Service Rate as filed on 12/14/11 without MK Scrubber		7.90	
33	Total Forecasted Energy Service Rate (line 29 + Line 31)		9.08	
36	**Proposed three year recovery and amortization of the**			
37	**2011 Merrimack Scrubber Underrecovery**			
39	2011 Merrimack Scrubber Under Recovery	$	13,101	Attachment RAB-6, page 1
41	Amortized over 3 years 2012 - 2014		3	
43	2012 Amortization of Merrimack Scrubber			
44	under recovery from 2011 (Line 39 / Line 41)	$	4,367	

Amounts shown above may not add due to rounding.

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

Merrimack Scrubber O&M, Depr. & Taxes	Under Recovery 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
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)	(2,790)
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	$ 1,896	$ 1,841	$ 1,689	$ 1,465	$ 1,465	$ 1,465	$ 1,911	$ 1,909	$ 1,569	$ 1,581	$ 1,910	$ 1,998	$ 20,699

(1) 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.

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1 **PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE**
2 **2012 ENERGY SERVICE RATE CALCULATION**
3 **MERRIMACK SCRUBBER RETURN ON RATE BASE**
4 **(Dollars in 000's)**
5

6		**Under Recovery**												
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)	328,944	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	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	0.8878%	
23	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.

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Attachment SEM-2

Temporary Rate Calculation

Line	PSNH Forecasted 2012 Costs:		Per PSNH 1/28/2012		Staff Proposal	
1	Scrubber O&M, Fuel & Avoided SO_2 cost		$ 6,671		$ 6,671	
2	Scrubber Depreciation Expense		13,761		13,761	
3	Scrubber Property Tax Expense		267		267	
4	Scrubber Return on Rate Base		34,801		34,801	
5		Subtotal	55,500		55,500	
6	Amortization of 2011 Scrubber Under-recovery					
7	(13,101 / 3 years)		4,367			
8	Net Forecasted Scrubber Cost (PSNH)		$ 59,867			
9	Temporary Rate Cost Percentage (see below)				66.00%	
10	2012 Costs for Temporary Rate Purposes				36,631	
11	2011 Scrubber Under-recovery				13,101	
12	Net Scrubber Costs for Temp. Rates (Staff)				$ 49,732	
13	Forcasted April - December 2012 MWh Sales		3,784,328		3,784,328	
14	ES Rate Attributable to Scrubber (4/2012 - 12/2012)		1.58	¢/kWh	1.31	¢/kWh
15	Total 2012 Forecasted Sales		5,093,934		5,093,934	
16	ES Rate Attributable to Scrubber (12 mo. Rate)		1.18	¢/kWh	$\boxed{0.98}$	¢/kWh

Line			($000)		
17					
18	Calculation of Temporary Rate Cost Percentage:		DE 11-215	Accum.	Adjusted
19	13-month average of Gross Plant		Staff #1-17	Depr.	Gross Plant
20		December 31, 2011	350,358	3,100	353,458
21		January 31, 2012	349,288	4,170	353,458
22		February 29, 2012	348,218	5,240	353,458
23		March 31, 2012	356,348	6,310	362,658
24		April 30, 2012	355,249	7,409	362,658
25		May 31, 2012	354,150	8,508	362,658
26		June 30, 2012	385,351	9,607	394,958
27		July 31, 2012	384,148	10,810	394,958
28		August 31, 2012	382,945	12,013	394,958
29		September 30, 2012	383,742	13,216	396,958
30		October 31, 2012	382,527	14,431	396,958
31		November 30, 2012	381,312	15,646	396,958
32		December 31, 2012	383,097	16,861	399,958
33					4,924,054
34			Divide by 13		13
35			13-mo average		378,773

Line			
36	Original Scrubber Project Cost Estimate	(a)	250,000
37	Divide by: 13-month average gross plant for 2012	(b)	378,773
38			
39	Temporary Rate Cost Percentage (a/b)		66.00%

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Data Request STAFF-01

Dated: 10/28/2011
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Witness: Robert A. Baumann
Request from: New Hampshire Public Utilities Commission Staff

Question:
Regarding October 14, 2011 Filing. Reference Attachment RAB-5, page 3, line 15. Please provide the monthly amounts of gross plant and accumulated depreciation.

Response:
The attached spreadsheet provides Attachment RAB-5, page 3 along with the 2012 monthly Merrimack Scrubber gross plant, plant additions and the related depreciation.

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Q-STAFF-017
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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
2012 ENERGY SERVICE RATE CALCULATION
MERRIMACK SCRUBBER RETURN ON RATE BASE
(Dollars in 000's)

Line	Merrimack Scrubber / Return on Rate Base	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
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	
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	
21	Average Rate Base (prev + curr month)	328,981	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)	$ 3,067	$ 3,022	$ 3,010	$ 3,008	$ 2,963	$ 3,057	$ 3,150	$ 3,088	$ 3,056	$ 3,062	$ 3,045	$ 3,012	$ 36,540

Amounts shown above may not add due to rounding.

	January	February	March	April	May	June	July	August	September	October	November	December
Gross plant	350,358	349,288	348,218	356,348	355,249	354,150	385,351	384,148	382,945	383,742	382,527	381,312
plant adds	-	-	9,200	-	-	32,300	-	-	2,000	-	-	3,000
Less depreciation	(1,070)	(1,070)	(1,070)	(1,099)	(1,099)	(1,099)	(1,203)	(1,203)	(1,203)	(1,215)	(1,215)	(1,215)
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

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

Line	Summary of Forecasted Energy Service Cost For January 2012 Through December 2012		Merrimack Scrubber Total cost	Reference
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		36,540	Attachment RAB-5, page 3
19	Total Forecasted Merrimack Scrubber Cost	$	57,247	
21	Amortization of 2011 Merrimack Scrubber Under Recovery		4,520	Line 44 below
23	Net Forecasted Merrimack Scrubber Cost	$	61,768	
25	Forecasted Retail MWH Sales		5,230,952	
28	Forecasted Energy Service Merrimack Scrubber Rate Impact			
29	cents Per KWH (line 23 / Line 25)		1.18	
31	Energy Service Rate as filed on 9/23/11 without MK Scrubber		8.39	
33	Total Forecasted Energy Service Rate (line 29 + Line 31)		9.57	
36	**Proposed three year recovery and amortization of the**			
37	**2011 Merrimack Scrubber Underrecovery**			
39	2011 Merrimack Scrubber Under Recovery	$	13,561	Attachment RAB-6, page 1
41	Amortized over 3 years 2012 - 2014		3	
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.

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

Merrimack Scrubber O&M, Depr. & Taxes	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
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

(1) 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.