

Qualifications of Stephen R. Eckberg

My name is Stephen R. Eckberg. I am employed as a Utility Analyst with the Office of Consumer Advocate (OCA), where I have worked since 2007. My business address is 21 S. Fruit Street, Suite 18, Concord, New Hampshire 03301.

I earned a B.S. in Meteorology from the State University of New York at Oswego in 1978, and an M.S. in Statistics from the University of Southern Maine in 1994.

After receiving my M.S., I was employed as an analyst in the Boston office of Hagler Bailly, Inc; a consulting firm working with regulated utilities to perform evaluations of energy efficiency and demand-side management programs.

From 2000 through 2003, I was employed at the NH Governor's Office of Energy and Community Services (now the Office of Energy and Planning) as the Director of the Weatherization Assistance Program. More recently, I was employed at Belknap-Merrimack Community Action Agency as the Statewide Program Administrator of the NH Electric Assistance Program (EAP). In that capacity, I presented testimony before this Commission in dockets related to the design, implementation and management of the EAP. I have also testified before Committees of the New Hampshire Legislature on issues related to energy efficiency and low income electric assistance.

In my position with the OCA, I have testified jointly with Kenneth E. Traum, Former Assistant Consumer Advocate, in the following dockets:

- DG 08-048 Unitil Corporation and Northern Utilities, Inc. Joint Petition for Approval of Stock Acquisition.
- DW 08-070 Lakes Region Water Company Petition for Financing and Step Increases.

- DW 08-098 Aquarion Water Company of New Hampshire.
- DE 09-035 Public Service of New Hampshire Distribution Service Rate Case.

I have also entered (non-joint) testimony in:

- DT 07-027 Kearsarge Telephone Company, Wilton Telephone Company Hollis Telephone Company and Merrimack County Telephone Company Petition for Alternative Form of Regulation. Phase II and Phase III.
- DW 08-073 Pennichuck Water Works, Inc. Petition for Rate Increase.
- DW 08-070 Lakes Region Water Company Third Step Increase.
- DW 08-065 Hampstead Area Water Company Petition for Rate Increase.
- DE 09-170 2010 CORE Energy Efficiency Programs.
- DW 10-090 Pittsfield Aquaduct Company Petition for Rate Increase.
- DW 10-091 Pennichuck Water Works Petition for Rate Increase.
- DW 10-141 Lakes Region Water Petition for Rate Increase.
- DE 10-188 2011-2012 CORE and Natural Gas Energy Efficiency Programs.

I have attended regulatory training at New Mexico State University's Center for Public Utilities. I participate in committees of the National Association of State Consumer Advocates (NASUCA) on behalf of the OCA. I am a member of the American Statistical Association.

Public Service Company of New Hampshire
Docket No. DE 12-292

Data Request OCA-01
Dated: 10/31/2012
Q-OCA-005
Page 1 of 1

Witness: William H. Smagula
Request from: Office of Consumer Advocate

Question:

Reference Order No. 25,380 dated June 27, 2012 page7. The Order states "Finally, we direct the Company to undertake a systematic review of operation, materials, and capital costs, including personnel costs, associated with the operation of its fossil fuel plants given the low capacity factors of these units in recent years and the current expectation of them remaining low over the next few years. The review should also include any costs that are billed to the fossil plants such as engineering and regulatory support. PSNH shall provide details regarding its review and analysis at the time it makes its next energy service filing." [emphasis added]. Has the completed the systematic review ordered by the Commission? If so, please provide that review and supporting documentation. If not, please explain.

Response:

As noted above and discussed in the order, PSNH is completing the requested review. This review of operations, materials, and capital costs will be reflected in the data to be submitted in the 2013 Proposed Energy Service filing in December. The associated discussion including personnel costs, capacity factors, engineering and regulatory support, etc. will be provided.

Public Service Company of New Hampshire
Docket No. DE 12-292

Data Request STAFF-01
Dated: 10/24/2012
Q-STAFF-004
Page 1 of 6

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

Question:

Reference Attachment RAB-2, page 5. Please break down the amounts shown in the table by a) generating plant and b) by individual unit (if available) in a format similar to the response to STAFF-01, Q-STAFF-002 in DE 11-215. For purposes of this question, the hydro units and the combustion turbines can be shown as separate groups.

Response:

Please see the attached.

PSNH
2013 Energy Service Rate Calculation
Fossil/Hydro O&M

(thousands of dollars)

F/H O&M Cost	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Total
Merrimack Station (1)	2,981	2,263	2,810	8,142	4,542	1,190	2,663	3,090	2,454	4,778	2,334	2,271	39,519
Schiller Station	1,680	1,275	1,584	4,589	2,560	671	1,501	1,742	1,383	2,693	1,316	1,280	22,273
Newington Station	750	569	707	2,048	1,142	299	670	777	617	1,202	587	571	9,939
Hydro Plants	845	642	797	2,308	1,288	337	755	876	696	1,355	662	644	11,203
	6,256	4,749	5,899	17,087	9,532	2,497	5,589	6,486	5,149	10,027	4,898	4,767	82,935

(1) Excludes O&M costs associated with the Merrimack Scrubber.

Amounts shown above may not add due to rounding.

PSNH
2013 Energy Service Rate Calculation
Fossil/Hydro Depreciation

(thousands of dollars)

F/H Depreciation	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Total
Merrimack Station	336	346	345	346	348	347	348	350	358	358	366	367	4,218
Newington Station	104	104	104	104	104	104	104	104	104	104	104	104	1,253
Schiller Station	929	929	929	929	929	929	929	929	929	929	929	929	11,149
Wyman	5	5	5	5	5	5	5	5	5	5	5	5	58
Hydro	97	97	97	97	97	97	97	97	97	97	97	97	1,164
Combustion Turbines	30	30	30	30	30	30	30	30	30	30	30	30	356
General Plant/Intangible	47	40	41	41	42	43	44	45	51	51	60	62	561
	1,548	1,551	1,551	1,552	1,554	1,555	1,557	1,560	1,573	1,574	1,591	1,594	18,759

Amounts shown above may not add due to rounding.

PSNH
 2013 Energy Service Rate Calculation
 Fossil/Hydro Property Tax

(thousands of dollars)

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Total
Merrimack Station	341	341	341	383	383	383	383	383	383	383	383	383	4,471
Schiller Station	170	170	170	191	191	191	191	191	191	191	191	191	2,229
Newington	92	92	92	104	104	104	104	104	104	104	104	104	1,214
Combustion Turbines	93	93	93	105	105	105	105	105	105	105	105	105	1,223
Hydro	216	216	216	242	242	242	243	243	243	243	243	243	2,829
	912	912	912	1,025	1,025	1,025	1,026	1,026	1,026	1,026	1,026	1,026	11,966

(1) Property Tax allocated to stations based on most current tax information available.

Amounts shown above may not add due to rounding.

PSNH
 2013 Energy Service Rate Calculation
 Fossil/Hydro Payroll Tax

(thousands of dollars)

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Total
Merrimack Station	118	108	93	101	140	23	96	92	91	131	86	80	1,158
Schiller Station	67	61	53	57	79	13	54	52	51	74	48	45	654
Newington	30	27	23	26	35	6	24	23	23	33	22	20	292
Hydro	34	31	26	29	40	7	27	26	26	37	24	23	329
	248	226	195	213	294	49	202	193	190	275	180	168	2,433

(1) Payroll Tax was allocated by station using O&M as the basis.

Amounts shown above may not add due to rounding.

PSNH
 2013 Energy Service Rate Calculation
 Fossil/Hydro Asset Retirement Obligation

(thousands of dollars)

	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Total
Merrimack Station	27	27	27	27	27	27	28	28	28	29	29	29	332
Schiller Station	23	23	23	24	24	24	24	24	24	25	25	25	290
Newington	2	2	2	2	2	2	2	2	2	2	2	2	23
Hydro	2	2	2	2	2	2	2	2	2	2	2	2	21
ICU	3	3	3	3	3	3	3	3	3	3	3	3	36
	57	57	57	58	58	58	59	59	59	60	60	60	703

Amounts shown above may not add due to rounding.

**Public Service Company of New
Hampshire**
Docket No. DE 11-215

Data Request STAFF-01

Dated: 10/28/2011
Q-STAFF-002
Page 1 of 6

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

Question:

Regarding September 23, 2011 Filing. Reference Attachment RAB-2; page 5. Please break down the amounts shown in the table by a) generating plant and b) by individual unit (if available) in a format similar to the response to STAFF-01, Q-STAFF-003 in DE 10-257. For purposes of this question, the hydro units and the combustion turbines can be shown as separate groups.

Response:

Pages 2 through 6 contain the requested monthly breakout, by plant, of the 2012 forecasted Fossil/Hydro O&M, Depreciation, Property tax, Payroll tax and ARO detail.

PSNH
2012 Energy Service Rate Calculation
Fossil/Hydro O&M

(thousands of dollars)

F/H O&M Cost	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
Merrimack Station (1)	4,604	3,966	3,921	3,480	3,944	3,779	3,794	3,837	3,764	3,757	4,007	4,002	46,854
Schiller Station	1,839	1,588	1,942	4,083	1,585	1,530	1,535	1,553	3,423	3,504	1,620	1,617	25,820
Newington Station	1,075	870	979	1,724	870	838	895	851	944	886	889	887	11,708
Hydro Plants	474	407	529	439	1,027	1,706	1,901	1,815	968	431	446	429	10,571
	7,992	6,831	7,372	9,726	7,425	7,852	8,124	8,056	9,099	8,577	6,962	6,936	94,953

(1) Excludes O&M costs associated with the Merrimack Scrubber which were filed separately.

Amounts shown above may not add due to rounding.

PSNH
2011 Energy Service Rate Calculation
Fossil/Hydro Depreciation

(thousands of dollars)

F/H Depreciation	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
Merrimack Station	338	338	338	338	338	338	338	338	338	338	338	338	4,054
Newington Station	744	744	744	744	744	744	744	744	744	744	744	744	8,925
Schiller Station	598	598	598	598	598	598	598	598	598	598	598	598	7,173
Wyman	14	14	14	14	14	14	14	14	14	14	14	14	167
Hydro	113	113	113	113	113	113	113	113	113	113	113	113	1,359
Combustion Turbines	46	46	46	46	46	46	46	46	46	46	46	46	556
General Plant/Intangible	31	24	25	25	26	27	28	29	35	35	44	46	370
	1,877	1,877	1,878	1,878	1,879	1,880	1,881	1,882	1,888	1,888	1,897	1,899	22,604

Amounts shown above may not add due to rounding.

PSNH
 2012 Energy Service Rate Calculation
 Fossil/Hydro Asset Retirement Obligation

(thousands of dollars)

	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
Merrimack Station	25	25	25	25	25	25	26	26	26	26	26	26	307
Schiller Station	22	22	22	22	22	22	22	22	22	23	23	23	267
Newington	2	2	2	2	2	2	2	2	2	2	2	2	21
Hydro	2	2	2	2	2	2	2	2	2	2	2	2	20
ICU	3	3	3	3	3	3	3	3	3	3	3	3	33
	52	52	52	53	53	53	54	54	54	56	56	56	647

Amounts shown above may not add due to rounding.

PSNH
 2012 Energy Service Rate Calculation
 Fossil/Hydro Property Tax

(thousands of dollars)

	Jan-12	Total											
Merrimack Station	285	285	285	353	353	353	353	353	353	353	353	353	4,035
Schiller Station	162	162	162	201	201	201	201	201	201	201	201	201	2,293
Newington	77	77	77	95	95	95	95	95	95	95	95	95	1,087
Hydro	202	202	202	251	251	251	251	251	251	251	251	251	2,866
Combustion Turbines	92	92	92	114	114	114	114	114	114	114	114	114	1,307
	818	818	818	1,015	1,015	1,015	1,015	1,015	1,015	1,015	1,015	1,015	11,587

(1) Property Tax allocated to stations based on most current tax information available.

Amounts shown above may not add due to rounding.

PSNH
 2012 Energy Service Rate Calculation
 Fossil/Hydro Payroll Tax

(thousands of dollars)

	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
Merrimack Station	125	114	137	58	89	81	78	79	98	63	85	78	1,085
Schiller Station	50	46	68	68	36	33	32	32	89	59	34	31	577
Newington	29	25	34	29	20	18	19	18	24	15	19	17	266
Hydro	13	12	19	7	23	36	39	37	25	7	9	8	237
ICU	-	-	-	-	-	-	-	-	-	-	-	-	-
	217	196	258	162	167	168	168	166	236	144	148	135	2,165

(1) Payroll Tax was allocated by station using Direct O&M as the basis.

Amounts shown above may not add due to rounding.

Public Service Company of New
Hampshire
Docket No. DE 11-215

Technical Session TS-02

Dated: 12/16/2011
Q-TECH-003
Page 1 of 1

Witness: Robert A. Baumann, William H. Smagula
Request from: New Hampshire Public Utilities Commission Staff

Question:

Please provide an explanation for the change to depreciation referenced in item D of the December 14, 2011 technical statement, and shown on Attachment RAB-2, Page 5 of the both the September 23, 2011 filing and the December 14, 2011 filing.

Response:

The decrease in depreciation expense is \$4.797 or \$4.8 million as noted in the revised Joint Technical Statement filed December 14, 2011. The total depreciation value in the initial September 23, 2011 filing on Attachment RAB-5, page 5 was \$22,604,000 which was revised in the December 14 update to \$17,807,000. The reason for the decrease in depreciation expense is due to a change in the Average Year of Final Retirement (AYFR) for some of the generating stations. Please see the changes as noted below.

Station	Current Year	Assumed Year
1. Wyman	2011	2021
2. Newington	2014	2039
3. Lost Nation	2012	2017
4. MMk Jet	2012	2017
5. Schiller Jet	2012	2017
6. White Lake	2012	2017
7. Merrimack	2023	2038
8. Schiller	2020	2020

Public Service Company of New Hampshire
Docket No. DE 12-292

Data Request STAFF-01
Dated: 10/24/2012
Q-STAFF-003
Page 1 of 1

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

Question:

Reference Baumann testimony, page 7, lines 10-14. Please provide all analyses supporting the conclusion that the NWPP revenue targets will continue to be met regardless of the changes in the REC markets.

Response:

The NWPP revenue targets have been satisfied in the past by using a sum of REC revenues, the production tax credits and avoided costs associated with RGGI compliance. PSNH expects the overall value of these revenues and credits to continue to exceed the revenue target in the foreseeable future. The NWPP revenue target decreases each year by about \$0.5 million, with 2013 having a target of \$6.5 Million; the 2014 target is \$6 million; the 2015 target is \$5.5 million and so on. Therefore, PSNH can meet the 2013 revenue target with REC revenues alone if the price per REC is at or above \$21/REC with output of 309,000 MWH. PSNH's 9/28/12 filing had forecasted the REC prices to be over \$57/REC, meeting and exceeding the NWPP revenue target with REC revenues alone. Given the lower revenue target each year, the REC price can decrease by about \$1.50/REC each year starting 2014 and PSNH would still meet that year's revenue target with REC revenues alone. For example, if the REC price is at \$19.50/REC in 2014, then that will be sufficient to generate \$6 million in REC revenues to meet the 2014 target [309,000 x \$19.50/REC]. Also see the response to OCA-02, Q-OCA-012 in DE 12-116 for historical REC revenue values.

Beginning in 2016, existing facilities must meet at a minimum, an efficiency standard of 50% in Massachusetts. At that time, PSNH expects that it will be impossible for NWPP to qualify, therefore, PSNH will be unable to sell into the MA market under the proposed rules. PSNH currently sells a portion of its RECs to RI and NH parties with the remaining RECs being sold to MA. If the MA market is no longer viable, then PSNH can market its RECs to other states and increase its sales to RI and NH.