

ORIGINAL	
N.H.P.U.C. Case No.	DE 10-257
Exhibit No.	#9
Witness	Pana/2
NOT REMOVE FROM FILE	

Public Service Company of New
Hampshire
Docket No. DE 10-257

Data Request STAFF-02

Dated: 05/16/2011
Q-STAFF-005
Page 1 of 5

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

Question:
Reference Baumann/White joint technical statement, item 7. Please provide calculations demonstrating what the ES rate would be absent migration.

Response:
The estimated annualized ES rate impact for the calendar year 2011 would be a decrease from 8.71 to 8.11 cents/kWh. The 8.71 was contained in our filing dated May 4, 2011, Attachment RAB-1, page 1, line 27. The 8.11 is contained as an attachment to this data request, page 2 of 5, line 27.

1
2
3
4
5
6
7
8
9

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

10 Summary of Actual and Forecasted Energy Service	TOTAL COST	Cents per KWH	Reference
11 Cost For January 2011 Through December 2011			
12			
13 Fossil energy costs	\$ 140,842	1.97	Page 4
14 F/H O&M, depreciation & taxes	148,153	2.07	Page 4
15 Return on rate base	43,734	0.61	Page 4
16 ISO-NE ancillary (inc. Congestion and Loss Adj.)	1,906	0.03	Page 4
17 Capacity	34,894	0.49	Page 4
18 NH RPS	13,904	0.19	Page 4
19 RGI costs	3,321	0.05	Page 4
20 Vermont Yankee	7,527	0.11	Page 4
21 IPP costs (1)	29,662	0.41	Page 4
22 Purchases and sales	149,158	2.09	Page 4
23 Return on ES Deferral	(142)	(0.00)	Page 4
24 Merrimack projected RPC insurance proceeds	(3,200)	(0.04)	Page 4
25 2010 Actual ES underrecovery	10,366	0.14	Page 4
26			
27 Total Updated Energy Service Cost	\$ 580,125	8.11	
28 Total Updated Revenue	620,952		
29 2011 ES (Over)/Under Recovery	(39,926)		
30			
31 Forecasted Retail MWH Sales July - December 2011	3,956,870		
32			
33 Increase in Energy Service Rate - cents per kwh (L29/L31)	(1.01)		
34			
35 Updated Energy Service Rate as approved in DE 10-257 - cents per kwh	8.67		
36			
37 Updated Energy Service Rate - cents per kwh	\$ 7.66		

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

Amounts shown above may not add due to rounding.

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34

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 Estimate	May 2011 Estimate	June 2011 Estimate	Reference
Energy Service Cost							
Fossil energy costs	\$ 19,097	\$ 14,540	\$ 13,165	\$ 7,225	\$ 7,608	\$ 11,712	Page 5
F/H O&M, depreciation & taxes	9,386	8,886	10,808	14,729	13,184	11,769	
Return on rate base	3,639	3,652	3,652	3,632	3,614	3,668	
ISO-NE ancillary (inc. Congestion and Loss Adj.)	(561)	184	(798)	315	265	369	Page 5
Capacity	1,200	1,085	1,049	3,458	3,458	3,244	Page 5
NH RPS	873	864	869	1,165	1,168	1,233	Page 5
RGGI costs	567	115	279	202	201	295	Page 5
Vermont Yankee	688	623	648	669	683	645	Page 5
IPP costs (1)	4,115	2,090	2,341	2,493	2,140	1,919	Page 5
Purchases and sales	495	2,505	3,655	15,774	14,946	13,376	Page 5
Return on ES Deferral	22	17	13	9	3	(6)	
Merrimack projected RPC insurance proceeds	-	-	-	-	-	-	
2010 Actual ES under-recovery	10,366	-	-	-	-	-	
Total Energy Service Cost	\$ 49,887	\$ 34,560	\$ 35,681	\$ 49,672	\$ 47,272	\$ 48,225	
Total Energy Service Revenue at 8.67	43,283	37,414	38,054	51,685	51,836	54,720	
ES Under/(Over) Recovery	6,605	(2,854)	(2,373)	(2,013)	(4,564)	(6,495)	
Retail MWH Sales	499,353	431,507	438,899	596,134	597,875	631,143	
Energy Service Cost - cents per kwh	9.99	8.01	8.13	8.33	7.91	7.64	

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

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34

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

	July 2011 Estimate	August 2011 Estimate	September 2011 Estimate	October 2011 Estimate	November 2011 Estimate	December 2011 Estimate	Total	Reference
10 Energy Service Cost								
12 Fossil energy costs	\$ 14,503	\$ 14,297	\$ 10,503	\$ 6,286	\$ 6,896	\$ 15,009	\$ 140,842	Page 5
13 F/H O&M, depreciation & taxes	11,129	11,297	23,696	13,014	10,214	10,041	148,153	
14 Return on rate base	3,668	3,625	3,584	3,582	3,676	3,742	43,734	
15 ISO-NE ancillary (inc. Congestion and Loss Adj.)	453	458	363	111	180	566	1,906	Page 5
16 Capacity	3,310	3,459	3,638	3,660	3,662	3,670	34,894	Page 5
17 NH RPS	1,399	1,355	1,222	1,202	1,206	1,347	13,904	Page 5
18 RGGI costs	352	348	266	155	173	366	3,321	Page 5
19 Vermont Yankee	679	662	646	221	670	693	7,527	Page 5
20 IPP costs (1)	2,365	2,346	1,899	2,247	2,503	3,205	29,662	Page 5
21 Purchases and sales	16,488	16,011	14,731	18,602	17,958	14,616	149,158	Page 5
22 Return on ES Deferral	(18)	(30)	(31)	(30)	(39)	(53)	(142)	
23 Merrimack projected RPC insurance proceeds	-	-	-	-	-	(3,200)	(3,200)	
24 2010 Actual ES under-recovery	-	-	-	-	-	-	10,366	
26 Total Energy Service Cost	\$ 54,329	\$ 53,827	\$ 60,518	\$ 49,052	\$ 47,098	\$ 50,002	\$ 580,125	
28 Total Energy Service Revenue at 8.67	62,088	60,117	54,216	53,352	53,504	59,783	620,052	
30 ES Under/(Over) Recovery	(7,759)	(6,290)	6,301	(4,299)	(6,406)	(9,781)	(39,926)	
32 Retail MWH Sales	716,126	693,393	625,333	615,358	617,120	689,540	7,151,781	
34 Energy Service Cost - cents per kwh	7.59	7.76	9.68	7.97	7.63	7.25	8.11	

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

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

		Actual							Estimate				Total		
		Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11		Dec-11	
1															
2	Hydro:	Energy	31,741	24,119	40,788	39,686	37,382	28,327	22,178	19,888	16,457	23,078	32,32	31,206	347,170
3															
4	Coal:	Energy	331,457	326,273	280,045	202,336	189,148	286,229	307,882	307,882	259,499	151,112	173,318	344,472	3,159,653
5		Energy Expense	\$ 14,253	12,069	12,266	7,203	6,589	10,510	11,282	11,282	9,425	5,272	6,157	12,633	118,941
6															
7	Wood:	Energy	30,013	26,223	26,449	0,827	14,164	25,436	26,283	26,283	25,436	27,951	27,050	27,951	284,066
8		Energy Expense	\$ 1,546	1,294	1,350.0	40	686	1,232	1,273	1,273	1,232	1,353	1,310	1,353	13,941
9		Revenue Credit	\$ (764)	(708)	(711)	(17)	(299)	(537)	(555)	(555)	(537)	(590)	(571)	(590)	(6,437)
10															
11	Nuclear:	Energy	15,523	13,875	15,487	14,818	15,126	14,285	15,029	14,664	14,314	4,906	14,846	15,349	168,220
12		Energy Expense	\$ 688	623	648	669	683	645	679	662	646	221	670	693	7,527
13															
14	IC/Jets	Energy	0.174	0.033	(0.056)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.151
15		Energy Expense	\$ 55	16	4	-	-	-	-	-	-	-	-	-	75
16															
17	Newington:	Energy	43,646	14,348	1,433	0,000	11,486	9,068	44,129	40,502	6,650	4,232	0,000	21,762	197,253
18		Energy Expense	\$ 4,007	1,869	254	-	633	508	2,504	2,297	384	252	-	1,613	14,321
19															
20	IPP's:	Energy	53,858	35,862	51,296	52,328	46,705	42,718	46,731	45,667	42,349	48,492	51,180	54,130	571,316
21		Energy Expense	\$ 3,853	1,885	2,136	2,290	1,938	1,829	2,274	2,250	1,798	2,076	2,332	3,034	27,696
22		ICAP	\$ 262	205	205	202	202	90	91	95	100	171	171	171	1,967
23															
24	Peak Purchase:	Energy	0.000	0.000	0.000	144,247	133,855	128,354	137,652	136,163	139,176	173,046	162,697	106,671	1,261,862
25		Energy Expense	\$ -	-	-	7,022	6,239	6,460	8,128	8,101	6,917	8,379	8,409	6,536	66,190
26															
27	Known Purchases	Energy	55,906	43,997	51,050	39,432	38,287	39,088	34,678	39,478	37,488	37,618	39,432	40,296	496,751
28		Energy Expense	\$ 3,964	4,009	4,466	3,213	3,152	3,249	2,909	3,324	3,111	3,117	3,213	3,258	40,984
29															
30	Offpeak Purchase:	Energy	0.000	0.000	0.000	136,501	145,861	93,680	122,546	102,721	119,671	180,060	151,515	87,223	1,139,779
31		Energy Expense	\$ 0	0	0	5,540	5,555	3,667	5,455	4,595	4,704	7,106	6,336	4,829	47,787
32															
33	ISO-NE Net	Energy	(42,974)	(28,000)	(9,809)	0,000	0,000	(0,003)	(0,091)	(0,263)	0,000	0,000	0,000	(0,148)	(81,288)
34		(Credit)	\$ (3,469)	(1,504)	(811)	0	0	(0)	(3)	(9)	0	0	0	(7)	(5,803)
35															
36	Congestion and Loss Adjustment		\$ 0	0	0	(161)	(163)	(47)	(15)	3	(110)	(268)	(201)	141	(820)
37															
38	Total Energy GWH		519,344	456,730	456,683	630,174	632,013	667,181	757,017	732,986	661,040	650,495	652,358	728,913	7,544,933
39	Total Energy Expense	\$	24,395	19,758	19,807	26,000	25,215	27,605	34,020	33,319	27,670	27,089	27,826	33,664	326,368
40															
41															
42	ISO-NE Ancillary	\$	(561)	184	(798)	476	428	416	469	455	473	379	380	425	2,726
43	NH RPS	\$	873	864	869	1,165	1,168	1,233	1,399	1,355	1,222	1,202	1,206	1,347	13,904
44	RGGI Costs	\$	567	115	279	202	201	295	352	348	266	155	173	366	3,321
45															
46	Capacity (sold)/bought MW		271	271	182	877	877	1,038	1,038	1,038	1,038	1,019	1,019	1,019	9,689
47	Capacity (sold)/bought Cost (\$000)	\$	1,200	1,085	1,049	3,458	3,458	3,244	3,310	3,459	3,638	3,660	3,662	3,670	34,894

Amounts shown above may not add due to rounding.