

PSNH Energy Park 780 North Commercial Street, Manchester, NH 03101

ORIGINAL Public Service Company of New Hampshire P.O. Box 330

N.H.P.U.C. Case No. Dr. 09-180 Manchester, NH 03105-0330 (603) 669-4000

Exhibit No. 33

Witness Pane / 1

The Northeast Utilities System

May 4, 2010

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

Re: Interim Change in the Default Energy Service Rate Docket No. DE 09-180

Dear Ms. Howland:

Enclosed please find an original and six copies of the Prepared Direct Testimony of Robert A. Baumann with attachments and a Joint Technical Statement Robert A. Baumann and Frederick B. White containing a calculation and supporting documentation for a Default Energy Service (Energy Service) rate applicable to PSNH's customers who take service under Energy Service Rate DE on and after July 1, 2010. PSNH currently calculates that there will be a decrease from the current rate of 8.96 cents per kilowatt-hour to 8.57 cents per kilowatt-hour. This estimate includes actual costs through March 2010 and a projection of costs from April through December.

DO NOT REMOVE FROM FILE

As was customary in the past, PSNH will file updated projections of costs and actual experience through April prior to the hearing in this matter; therefore, the rate PSNH ultimately requests may differ from the enclosed calculation. PSNH requests that the Commission reopen this proceeding and schedule a hearing so that a final determination of a rate may be made on or before June 28, 2010 to calculate and test all of the rate changes scheduled for July 1, 2010. Concurrently with this filing, PSNH is requesting the Commission to reopen the Stranded Cost Recovery Charge (SCRC) proceeding to enable PSNH to request a change in the SCRC on July 1, 2010. At the beginning of June PSNH will file a request for a new Transmission Cost Adjustment Mechanism rate also for effect on July 1, 2010.

Copies of this filing have been provided to the persons on the attached service list pursuant to Puc §203.02 and Puc §203.11.

Very truly yours,

Hell.

7 Gérald M. Eaton Senior Counsel

Enclosures cc: Service List

Service List Docket DE 09-180

Ms. Debra A. Howland Executive Director & Secretary State of New Hampshire Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

Mr. Thomas C. Frantz Director - Electric Utilities State of New Hampshire Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

Mr. Al-Azad Iqbal State of New Hampshire Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

Mr. Stephen Eckberg Office of Consumer Advocate 21 South Fruit Street Concord, NH 03301-2429

Mr. Michael D. Cannata Jr Liberty Consulting Group 65A Ridge Road Deerfield, NH 03037-1402

Mr. Bill Gabler Clean Power Development LLC 130 Pembroke Road, Suite 100 Concord, NH 03301

Ms. K'LaRae Nolin Admin Support Public Service of New Hampshire 780 N. Commercial Street Manchester, NH 03101 Ms. Amanda Noonan Consumer Affairs Director State of New Hampshire Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

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Ms. Suzanne Amidon Staff Attorney State of New Hampshire Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

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THE STATE OF NEW HAMPSHIRE

BEFORE THE NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

PREPARED TESTIMONY OF ROBERT A. BAUMANN

DEFAULT ENERGY SERVICE RATE

MID-TERM ADJUSTMENT EFFECTIVE JULY 1, 2010

Docket No. DE 09-180

1	Q.	Please state your name, business address and position.
2	Α.	My name is Robert A. Baumann. My business address is 107 Selden Street, Berlin,
3		Connecticut. I am Director, Revenue Regulation & Load Resources for Northeast
4		Utilities Service Company (NUSCO). NUSCO provides centralized services to the
5		Northeast Utilities (NU) operating subsidiaries, including Public Service Company of
6		New Hampshire (PSNH), The Connecticut Light and Power Company, Yankee Gas
7		Services Company, and Western Massachusetts Electric Company.
8	Q.	Have you previously testified before the Commission?
9	Α.	Yes. I have testified on numerous occasions before the Commission.
10	Q.	What is the purpose of your testimony?
11	A.	The purpose of my testimony is to provide a detailed overview of PSNH's request for a
12		mid-term adjustment to decrease the current Default Energy Service (ES) rate effective
13		on July 1, 2010.

1 Q. What is PSNH requesting in this proceeding?

2 In this proceeding, PSNH is requesting that the Commission approve a mid-term A. 3 adjustment to the ES rate for all customers effective July 1, 2010. This rate adjustment would decrease the current ES rate of 8.96 cents per kWh to 8.57 cents per kWh, based 4 on actual results through March 2010 and the most current forecast of PSNH's costs of 5 providing such power for the remainder of 2010. PSNH is proposing the ES rate change 6 to take effect July 1, 2010 consistent with its simultaneous proposal to change the 7 SCRC. In addition, in early June 2010, PSNH will also file its proposal to change the 8 Transmission Cost Adjustment Mechanism (TCAM) effective July 1, 2010. The detailed 9 calculations supporting the proposed ES rate can be found in Attachments RAB-1 and 10 11 RAB-2 to this testimony.

12 Q. Does this testimony address any other significant issues?

- 13 A. Yes. My testimony elaborates on the level of customer migration embedded in this
 14 forecasted ES rate calculation and impacts created by migration on the ES rate.
- 15 Q. Please provide the historic and current ES rates.
- 16 A. The table below outlines ES rates in effect from May 1, 2001 to the present for
 17 residential, small commercial and industrial customers (Group 1) and large commercial
 18 and industrial customers (Group 2).

Date of Service

May 2001 - January 2003 February 2003 - January 2004 February 2004 - July 2004 August 2004 - January 2005 February 2005 - July 2005 August 2005 - January 2006 February 2006 - June 2006 July 2006 - December 2006 January 2007 - June 2007 July 2007 - December 2007 January 2008 - June 2008 July 2009-December 2008 January 2009 - July 2009 August 2009 - December 2009	(a) (b)	4.40 cents per kWh 4.60 /4.67 5.36 5.79 6.49 7.24 9.13 8.18 8.59 7.83 8.82 9.57 9.92
August 2009 – December 2009 January 2010 – July 2010		9.03 8.96
January 2010 - July 2010		0.30

- 1 (a) Set by statute for all retail customers.
- (b) Small C&I and residential set by statute (4.60 cents). Large C&I set on forecasted
 costs (4.67 cents).
- Initially, Energy Service rates were set by statute. Beginning in February 2003, the

 Energy Service rate for large commercial and industrial customers was based on

 PSNH's forecast of "actual, prudent and reasonable costs" (4.67 cents). Beginning in

 February 2004, the Energy Service rate for all retail customers was based on a forecast of PSNH's "actual, prudent and reasonable costs."
- 9 Q. Please provide an overview of how the Energy Service cost recovery mechanismworks.

A. PSNH recovers the cost of supplying energy to customers who choose to receive energy from PSNH though the ES rate. The ES rate is forecasted and reconciled once actual costs are known. ES reconciliation amounts, beginning in February 2006, are deferred and applied to future ES rate recoveries per the Commission's order and findings in Docket No.DE 05-164, Order No. 24,579, dated January 20, 2006.

Describe what has transpired during the ES period beginning January 1, 2010?

The current ES rate of 8.96 cents per kWh began on January 1, 2010 for the twelve month period, January – December 2010. The primary reasons for the 0.39 c/kWh recommended decrease in the rate to 8.57 cents is due to lower projected forward market prices, a resale of 50,000 tons of undelivered coal at a projected savings of \$2.3 million and lower actual and forecasted F/H O&M costs of \$5.2 million. In addition, part of the decrease in the ES rate is due to lower actual and forecasted return on rate base of \$3.4 million due to a lower actual ROR rate and lower net plant and fuel inventory values as compared to previous estimates. These lower forecasted costs were partially offset by an actual under recovery for the period November 2009 - March 2010, caused in part by increased migration.

Q. When will PSNH provide an update to the proposed ES rate?

Q.

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A. The values in this filing will be updated in about four weeks to reflect actual results for
April 2010. In addition, if there are any other significant changes, such as a significant
change to the forecasted forward market prices from those used in developing this rate

1		or significant changes in projected customer migration, then PSNH will also update its
2		rate for these changes. At that time we will provide further detail to support this
3		requested rate change and provide an updated Technical Statement.
4	Q.	Are the costs that PSNH has included in this ES rate filing consistent with past ES
5		filings?
6	A.	Yes. ES costs contain the generation asset revenue requirements, entitlements and
7		purchased power obligations, including the cost of fuel used for generation. In addition,
8		ES costs include the costs and revenues from market purchases and sales, ISO-NE
9		expenses and revenues, New Hampshire Renewable Portfolio Standard costs (RSA
10		Chapter 362-F), Regional Greenhouse Gas Initiative costs (RSA 125-O:19-125-O:28),
11		and IPP power valued at market prices. Finally, ES costs include non-fuel operation and
12		maintenance costs (O&M), depreciation, property taxes and payroll taxes, uncollectible
13		costs attributable to ES, and a return on the net generation investment.
14	Q.	How is PSNH's mandated purchased power obligations (IPPs) valued in
15		calculating the Energy Service rate?
16	A.	PSNH includes the IPP generation as a source of power to meet PSNH's load
17		requirements, and that power is valued based on projected market costs (energy and
18		capacity). The over-market portion of purchases from the IPPs is considered to be a
19		stranded cost and recovered as a Part 2 cost through the Stranded Cost Recovery
20		Charge. This treatment is consistent with the Restructuring Settlement and the
21		Commission's Order in Docket No. DE 02-166. As market prices increase, the ES costs

increase and there is a corresponding decrease to the SCRC rate for the same time period. To properly match the recovery of IPP costs, PSNH will also simultaneously file for a change in the SCRC rate effective July 1, 2010.

Customer Migration

Α.

Q. Explain how the issue of customer migration has been treated in this filing.

In the Commission's Order No. 25,061 in Docket No. DE 09-180 (hereinafter "the Commission's Order"), an ES rate was approved assuming a going forward migration rate of 27%. It was shown in that docket that as customers migrated to third party supply during a time when the marginal cost to serve is lower than the average cost to serve; the ES rate is increased for the remaining ES customers. Most of those ES customers are the residential customers and the smaller commercial customers that have less of an opportunity to choose third party supply ("small customers"). It was PSNH's testimony at that time, and it is today, that this phenomenon is unfair to the small customers remaining on the ES rate and an unintended impact resulting from the changes brought about due to restructuring. Furthermore, large customers who have selected a third party supply benefit from PSNH's embedded supply if they elect to return to PSNH. This guaranteed back up supply is available to such customers at no cost to them. In the meantime, small customers are left with a higher ES rate as they continue to support PSNH's supply. Recognizing this issue, the Commission's Order in that docket, page 31 noted the following:

"It is clear that approving Method 2 alone, however, does not fully address the effects of the migration of large customers to competitive suppliers on PSNH's small commercial and residential customers who have less of an

opportunity to choose an electric supplier. We are not persuaded that 1 2 PSNH has yet taken measures sufficient to address potential migration 3 and, therefore, we will require the Company to develop a meaningful range 4 of forecasts of customer migration as it prepares to recommend a mid-year adjustment to its ES rate effective July 1, 2010." 5 6 The Commission's Order presented two issues associated with migration which will be 7 addressed below. These are (1) the issue of migration impacts on the small customers' 8 ES rates as discussed above and (2), the development of a meaningful forecasted range 9 for future migration for the ES rate calculations. 10 Q. Explain the migration impacts on the small customers' ES rates resulting from the 11 migration of large customers to competitive suppliers. 12 A. PSNH agrees that recent increases in the ES rate for small customers, due to migration 13 of larger customers, was not fully addressed in the last proceeding. It is still our belief that a portion of the current ES costs should be removed from the ES rates and 14recovered through a non-bypassable rate from all customers. Such a recovery would 15 then fairly spread the cost of back up supply to all customers, not just small customers. 16 17 We stand ready to take part in any effort that is deemed appropriate that would further 18 address this fairness issue.

What level of migration has PSNH used in this filing?

Q.

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A.	The percent of migration assumed for this filing is 29.7%. This value represents the
	actual current migration level on PSNH's system as of March 31, 2010. With respect to
	the Commission's Order noted above, we also forecasted two alternative ES migration
	scenarios and calculated the corresponding ES rates. The latest 3 months of
	incremental migration percentages, since the setting of the current ES rate, were used to
	calculate and apply a historical trend for the two migration alternatives. These 2
	alternative scenarios changed migration levels on a monthly basis based on the historic
	trends, and we assumed for discussion purposes both an increasing and decreasing
	migration alternative. The results of our calculations are as follows:

10	Average migration percentage	ES rate
11	29.7%	8.57 cents/kWh (As filed and proposed)
12	33.7	8.78
13	25.6	8.39
14	PSNH has proposed an ES rate ba	sed on the latest known migration value at March 31,
15	2010 and has not presumed that cu	stomers will migrate more or less than what is now
16	actually known. We recommend th	at the proposed ES rate be approved, especially in
17	light of unresolved effects that migr	ation is having on the ES rate for small customers.
18	We do not believe a higher ES rate	than what we have proposed would be appropriate.
19	However, we would support a lowe	r ES rate than what we have proposed in combination
20	with a non-bypassable charge that	would fairly recover back up supply costs from all
21	customers.	

1		Summary
2	Q.	Does the Commission need to make a determination at this time of the prudence
3		of the costs incurred since January 1, 2010?
4	A.	No. Prudence will be addressed in the Energy Service Charge reconciliation which has
5		traditionally been filed in early May following the calendar year when those costs were
6		incurred and collected.
7	Q.	Does PSNH propose to implement the new Energy Service rates on a service-
8		rendered basis?
9	A.	Yes.
10	Q.	Does PSNH require Commission approval of this rate by a specific date?
11	A.	Yes. Due to the number of rate components that will change, PSNH requests approval
12		of the proposed ES rate by June 28 to allow sufficient time to test thoroughly and bill or
13		our regular schedule without delaying billing for service rendered as of July 1, 2010.
14		Therefore, PSNH requests that the Commission reopen this proceeding so that the
15		procedural schedule can be set to review this filing and approve the ES rate in a timely
16		manner.
17	Q.	Does this conclude your testimony?
18	A.	Yes, it does.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE 2010 ENERGY SERVICE RATE CALCULATION (Dollars in 000's) 8 Traditional Approach 10 Summary of Actual and Forecasted Energy Service 11 Cost For January 2010 Through December 2010 Cents per KWH (2) Reference TOTAL COST 13 Fossil energy costs
14 F/H O&M, depreciation & taxes
15 Return on rate base Attachment RAB-2, page 2 Attachment RAB-2, page 2 Attachment RAB-2, page 2 134,936 2.45 40,833 0.74 2,738 16,215 0.05 Attachment RAB-2, page 2 0.29 Attachment RAB-2, page 2 16 ISO-NE ancillary 17 Capacity 0.20 Attachment RAB-2, page 2 0.12 Attachment RAB-2, page 2 18 NH RPŚ 10,864 19 RGGI costs 6,807 7,243 20 Vermont Yankee 0.13 Attachment RAB-2, page 2 21 IPP costs (1) 22 Purchases and sales 0.50 Attachment RAB-2, page 2 1,40 Attachment RAB-2, page 2 27,310 77,097 23 Return on ES Deferral 0.00 Attachment RAB-2, page 2 24 Merrimack projected O&M insurance proceeds 25 Merrimack projected RPC insurance proceeds (4,000) (7,800) (0.07) Attachment RAB-2, page 2 (0.14) Attachment RAB-2, page 2 26 Company Use 27 2009 Actual ES under/(over) recovery (0.01) Attachment RAB-2, page 2 0.08 Attachment RAB-2, page 2 (689)4,442 29 Total Updated Energy Service Cost 30 Total Updated Revenue at 8.96 cents per kwh 481,857 \$ 8.76 492,770 (10,912) 31 Energy Service (Over)/Under Recovery 33 Forecasted Retail MWH Sales July-December 2010 2,803,750 35 Decrease in Energy Service Rate - cents per kwh (L31/L33) (0.39)37 Energy Service Rate as approved in DE 09-180 - cents per kwh 8.96 39 Updated Energy Service Rate - cents per kwh 8.57

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

⁽²⁾ Cents per KWH was calculated using the 2010 actual and forecasted sales from Attachment RAB-2, page 2, line 34.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE 2010 ENERGY SERVICE RATE CALCULATION (Dollars in 000's)

5												
6												
7											_	
8		January	F	ebruary	March		April		May		June	
9		2010		2010	2010		2010		2010		2010	
10 Energy Service Cost		Actual		Actual	 Actual	E	stimate	E	stimate	E	stimate	Reference
11												
12 Fossil energy costs	\$	17,238	\$	16,427	\$ 16,134	\$	12,072	\$	10,130	\$	14,287	RAB-2, P3
13 F/H O&M, depreciation & taxes		10,525		9,974	11,201		16,672		11,595		9,714	RAB-2, P5
14 Return on rate base		3,509		3,503	3,206		3,453		3,299		3,347	RAB-2, P6
15 ISO-NE ancillary (inc. Congestion and Loss Adj.)		(591)		124	154		337		301		209	RAB-2, P3
16 Capacity		2,290		1,673	1,779		1,428		1,428		1,068	RAB-2, P3
17 NH RPS		994		994	994		803		814		854	RAB-2, P3
18 RGGI costs		550		528	538		546		547		632	RAB-2, P3
19 Vermont Yankee		646		563	655		517		341		623	RAB-2, P3
20 IPP costs (1)		3,743		2,244	2,089		2,431		2,475		1,842	RAB-2, P4
21 Purchases and sales		9,062		5,537	4,326		5,369		4,784		5,239	RAB-2, P3
22 Return on ES Deferral		15		18	23		26		27		26	
23 Merrimack projected O&M insurance proceeds		-		-	-		-		-		-	
24 Merrimack projected RPC insurance proceeds		-		-	-		-		-		-	
25 Company Use		_		-	-		-		-		-	
26 2009 Actual ES under/(over) recovery		4,442		-	-		-		-		-	
27					 							
28 Total Energy Service Cost Re-estimate	\$	52,423	\$	41,585	\$ 41,099	\$	43,655	\$	35,740	\$	37,842	
29	*	,	•	,	•							
30 Total Energy Service Revenue at 8.96		47,803		39,681	39,333		37,289		37,788		39,659	
31		,		- '	•							
32 ES Under/(Over) Recovery		4,620		1,904	1,766		6,366		(2,048)		(1,817)	
33		.,			,							
34 Retail MWH Sales		533,440		442,851	438,928		416,174		421,746		442,622	
35		,		,	•		,					
		9.83		9.39	9.36		10.49		8.47		8.55	
36 Energy Service Cost - cents per kwh		3.00		5.55	0.00							

⁽¹⁾ January 2010 IPP costs include \$305k of ES true-up to actual.

Amounts shown above may not add due to rounding.

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE 2010 ENERGY SERVICE RATE CALCULATION (Dollars in 000's)

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	lude		August	90	ntomber	(October	N	ovember	De	ecember			
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	(115)		(115)		(115)		(115)		(115)		(115)			
	-		-		-		-		-				4,442	-
\$	42,267	\$	41,546	\$	43,622	\$	36,868	\$	36,605	\$	28,609	\$	481,857	
	,													
\$	45,512	\$	45,270	\$	39,451	\$	38,954	\$	38,936	\$	43,093	\$	492,770	
•	, -													
\$	(3.245)	\$	(3,724)	\$	4,172	\$	(2,086)	\$	(2,330)	\$	(14,485)	\$	(10,912))
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	507.944		505.248		440,297		434,757		434,550		480,954		5,499,511	
	201,011				•		•							
	8 33		8 22		9 91		8.48		8.42		5.95		8.76	
	0.32		0.22		0.01		2							
	\$	10,473 3,396 151 1,068 980 653 656 1,972 8,246 22 - (115) \$ 42,267 \$ 45,512	2010 Estimate \$ 14,763 \$ 10,473 3,396 151 1,068 980 653 656 1,972 8,246 22 - (115) - \$ 42,267 \$ 45,512 \$ \$ (3,245) \$ 507,944	2010 Estimate 2010 Estimate \$ 14,763 \$ 15,005 10,473 10,038 3,396 3,391 151 176 1,068 1,068 980 975 653 659 656 640 1,972 1,763 8,246 7,928 22 17 - - (115) (115) - - (115) (115) - - \$ 42,267 \$ 41,546 \$ 45,512 \$ 45,270 \$ (3,245) \$ (3,724) 507,944 505,248	2010 Estimate 2010 Estimate Estimate E \$ 14,763 \$ 15,005 \$ 10,473 \$ 10,038 3,391 \$ 151 \$ 176 \$ 1,068 \$ 980 \$ 975 \$ 653 \$ 659 \$ 656 \$ 640 \$ 1,972 \$ 1,763 \$ 8,246 \$ 7,928 \$ 22 \$ 17 \$ \$ (115) \$ (115) \$ 150	2010 Estimate 2010 Estimate 2010 Estimate \$ 14,763 \$ 15,005 \$ 11,698 10,473 10,038 15,925 3,396 3,391 3,381 151 176 82 1,068 1,068 1,068 980 975 850 653 659 510 656 640 624 1,972 1,763 1,440 8,246 7,928 8,139 22 17 19 - - - (115) (115) (115) - - - (115) (115) (115) \$ 42,267 \$ 41,546 \$ 43,622 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PUBLIC SERVICE RATE COMPANY OF NEW HAMPSHIRE 2010 ENERGY SERVICE RATE CALCULATION

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

1				Арг-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Total
2	Hydro:	Energy	_	39.686	37,382	28.327	22,178	19.888	16.457	23.078	32.32	31,206	250,522
4	Coal:	Energy		287.099	287.459	332.076	343,145	343.145	267.834	178.355	333.690	344.813	2,717,616
5		Energy Expense	\$	11,927	9,663	13,828	14,289	14,289	11,239	7,652	13,899	14,362	111,148
6													
7	Wood:	Energy		8.040	25.885	25.435	26.283	26.283	25.435	27.951	27.050	27.951	220.313
8		Energy Expense	\$	440	1,416	1,392	1,438	1,438	1,392	1,530	1,480	1,530	12,056
9		Revenue Credit	\$	(295)	(950)	(933)	(964)	(964)	(933)	(1,025)	(992)	(1,025)	(8,083)
10													
	Nuclear:	Energy		11.86	7.807	14.285	15.029	14.664	14.314	15.207	14.846	15.349	123.361
12		Energy Expense	\$	517	341	623	656	640	624	663	648	670	5,382
13		_											
	Newington:	Energy		0.000	0.000	0.000	0.000	3.200	0.000	0.000	0.000	6.400	9.600
15		Energy Expense	\$	-	-	-	-	242	-	-	-	469	711
16	ton-	5		57.360	57.254	44.571	42.889	37.866	00.454	40.000	E4 007	56.294	423,711
	IPP's:	Energy		2,082	2,126	1,695	1,825	1,616	33.454 1,293	42.086 1,668	51.937 2,225	2,723	17,253
18 19		Energy Expense ICAP	\$ \$	349	349	1,093	1,625	1,616	1,293	231	2,225	2,723	1,981
20		ICAP	Þ	549	349	147	147	141	147	231	231	231	1,501
	Peak Purchase:	Energy		3,386	1.123	9.686	40.381	21,275	38.820	47.673	0.040	2.265	164.649
22	reak ruichase.	Expense	\$	149	61	543	2,331	1,203	1,747	2,188	3	161	8,386
23		Expense	•	143	01	040	2,001	1,200	1,1-11	2,100	ŭ	,	0,000
	Known Purchases	Energy		82.550	77.403	80.606	77,794	80.194	78.206	79.133	80.150	86.612	722,648
25	THOM I GIOIGOGO	Expense	\$	6,830	6,347	6,729	6,699	6,935	6,493	6,546	6,595	7,164	60,338
26		z.ye.iio	•	-,	-,,	-,	-,	-,		.,		•	•
27	Offpeak Purchase:	Energy		3.852	5.987	5,305	13,774	20.144	23,702	62,134	1.040	3.751	139.689
28		Expense	\$	148	230	224	619	897	892	2,345	54	213	5,622
29													
30	Surplus Energy Sales	Energy		(53.437)	(54.009)	(71.908)	(43.967)	(32.006)	(32.300)	(15.558)	(81.233)	(65.695)	(450.113)
31		(Credit)	\$	(1,758)	(1,854)	(2,257)	(1,403)	(1,107)	(993)	(575)	(3,224)	(3,004)	(16,174)
32													
33 34	Congestion and Loss Adjustment		\$	23	33	59	1	(2)	(68)	(168)	123	132	133
	Total Energy GWH			440,396	446,291	468.383	537,506	534.653	465,922	460.059	459,840	508,946	4,321.996
36	Total Energy Expense		\$	20,413	17,763	22,050	25,638	25,334	21,833	21,054	21,042	23,625	198,752
37	Total Energy Expense		•	,	,		,	,	,	•			
38	ICO NE Assillant		\$	313	268	150	150	179	150	623	542	542	2,918
	ISO-NE Ancillary NH RPS		3 S	803	814	854	980	975	850	839	839	928	7,882
	RGGI Costs		S	546	547	632	653	659	510	339	635	668	5,191
41			3	545	541		555	555	2.3				
	Capacity (sold)/bought MW-mo			348	348	237	237	237	237	219	219	305	2,389
	Capacity (sold)/bought Cost (\$000)		\$	1,428	1,428	1,068	1,068	1,068	1,068	984	984	1,374	10,473
77	Capacity (Sold)roodgile Code (Wood)		-	.,	.,		•	• '	•				

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE 2010 ENERGY SERVICE RATE CALCULATION

1 Forecasted PSNH IPP Market Value - April - December 2010

2								
3		I	PP Energy at	t				
4		IPP	Mkt Value	Capacity	ICAP Value	ICAP	Total	Total
5	Month	GWh	(\$000)	MW	\$/kw-mo	(\$000)	(\$000)	\$/MWh
9	April	57.360	2,082	85.2	4.1	349	2,431	42.38
10	May	57.254	2,126	85.2	4.1	349	2,475	43.23
11	June	44.571	1,695	32.8	4.5	147	1,842	41.34
12	July	42.889	1,825	32.8	4.5	147	1,972	45.99
13	August	37.866	1,616	32.8	4.5	147	1,763	46.57
14	September	33.454	1,293	32.8	4.5	147	1,440	43.06
15	October	42.086	1,668	51.3	4.5	231	1,899	45.12
16	November	51.937	2,225	51.3	4.5	231	2,456	47.28
17	December	56.294	2,723	51.3	4.5	231	2,954	52.47
18	Total	423.711	17,253			1,980	19,233	45.39

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE 2010 ENERGY SERVICE RATE CALCULATION Fossil / Hydro O&M, Depreciation & Taxes Detail (Dollars in 000's)

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8 9 10	January 2010	F	ebruary 2010	March 2010		April 2010		May 2010		June 2010		July 2010		August 2010	S	eptember 2010	(October 2010	vember 2010	D	ecember 2010	Total
11 Fossil / Hydro O&M, Depr. & Taxes	 Actual		Actual	 Actual	Ε	stimate	E	stimate	Е	Estimate	E	stimate	I	Estimate	E	Estimate	Е	Estimate	stimate	E	Estimate	
12										-									 			
13 F/H Operation & Maintenance Cost	\$ 7,812	\$	7,297	\$ 8,418	\$	13,974	\$	8,948	\$	6,918	\$	7,694	\$	7,353	\$	13,126	\$	7,083	\$ 6,595	\$	7,026	\$ 102,244
14 F/H Depreciation Cost	1,752		1,750	1,753		1,770		1,772		1,773		1,789		1,790		1,792		1,797	1,794		1,831	21,363
15 F/H Property Taxes	720		720	773		723		723		723		723		723		723		723	723		723	8,720
16 F/H Payroll Taxes	205		171	194		205		152		187		267		172		168		149	118		139	2,127
17 Amort, of Asset Retirement Obligation	 36		36	63		_		_		113		-				116		_	 -		118	 482
18																						
19 Total F/H O&M, Depr. and Taxes	\$ 10,525	\$	9,974	\$ 11,201	\$	16,672	\$	11,595	\$	9,714	\$	10,473	\$	10,038	\$	15,925	\$	9,752	\$ 9,230	\$	9,837	\$ 134,936

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE 2010 ENERGY SERVICE RATE CALCULATION FOSSIL/HYDRO RETURN ON RATE BASE (Dollars in 000's)

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8 9 10 11 12 13	Return on Rate Base	January 2010 Actual	February 2010 Actual	March 2010 Actual	April 2010 Estimate	May 2010 Estimate	June 2010 Estimate	July 2010 Estimate	August 2010 Estimate	September 2010 Estimate	October 2010 Estimate	November 2010 Estimate	December 2010 Estimate	Total
14	Rate base													
15	Net Plant	283,340	283,340	277,517	278,598	278,480	282,773	281,837	281,035	281,702	281,655	295,480	304,837	
16													10.005	
17	Working Capital Allow. (45 days of O&M)	11,347	11,347	11,347	12,605	12,605	12,605	12,605	12,605	12,605	12.605	12,605	12,605	
18	Fossil Fuel Inventory	81,748	81,748	65,480	62,000	62,000	62,000	62,000	62,000	62,000	62,000	62,000	62,000	
19	Mat'ls and Supplies	53,616	53,616	53,762	53,548	53,667	53,885	53.937	54,001	54,164	54,221	54,403	54,873	
20	Prepayments	2,428	2,428	2,292	1,789	1,789	1,789	1,789	1,789	1,789	1,789	1,789	1,789	
21	Deferred Taxes	(20,454)	(20,454)	(18,780)	(18,032)	(18,270)	(21,748)	(20,591)	(19,121)	(20,487)	(20,105)	(18,856)	(16,535)	
22	Other Regulatory Obligations	(12,409)	(12,409)	(15,521)	(17,628)	(18,480)	(7,606)	(8,665)	(9,705)	(11,055)	(11,946)	(12,846)	(13,643)	
23	Total Rate Base (L15 thru L22)	399,616	399,616	376,097	372,880	371,791	383,698	382,912	382,604	380,718	380,219	394,575	405,926	
24	, , , , , , , , , , , , , , , , , , , ,	<u></u>												
	Average Rate Base (prev + curr month)	400,326	399,616	387,857	389,724	372,336	377,745	383,305	382,758	381,661	380,469	387,397	400,251	
	x Return	0.8765%	0.8765%	0.8765%	0.8860%	0.8860%	0.8860%	0.8860%	0.8860%	0.8860%	0.8860%	0,8860%	0.8860%	
27	Return (L25 x L26)	\$ 3,509	\$ 3,503	\$ 3,206	\$ 3,453	\$ 3,299	\$ 3,347	\$ 3,396	\$ 3,391	\$ 3,381	\$ 3,371	\$ 3,432	\$ 3,546	\$ 40,833

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ACCRECATE VIVE	N.R.P.U.S. CASO NO. DE 09-180 THE S	WMAME OF MENT II IN COLUMN
		STATE OF NEW HAMPSHIRE
-	Exhibit No. Part 0 # 20	BEFORE THE
		IRE PUBLIC UTILITIES COMMISSION
	Witness	
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	Public Co	wrige Company of New Hampships

Public Service Company of New Hampshire Energy Service Rate Mid-year Adjustment

Docket No.DE 09-180

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

The actual Energy Service ("ES") under recovery through March 2010 is \$2.9 million greater than the original forecast, primarily due to higher customer migration level. The projected ES over recovery for the balance of the year, April through December 2010, is now forecasted to be \$13.8 million greater than currently reflected in rates. The principal reasons for this over recovery are lower costs as detailed below including lower delivered price of coal, lower forward electricity prices, lower F/H O&M and lower return on rate base.

The following notes identify where changes have occurred and details are provided as appropriate. Notes 1through 16 address the forecast period expenses which decreased by \$22.4 million. Note 17 addresses the forecast period revenues which decreased by \$8.6 million. As a result of these changes, April through December 2010 shows a net over recovery of \$13.8 million.

The total over recovery for 2010 is now projected to be \$10.9 million (\$2.9 million actual under recovery through March 2010 plus the \$13.8 million forecasted over recovery), resulting in an updated ES rate of 8.57 cents per kWh from July through December 2010.

- 1. Hydro output is lower by 2.4 GWh reflecting updated 20 year averages.
- 2. Coal costs are lower by \$3.0 million and coal generation output is higher by 30.3 GWh. \$2.3 million of lower costs is due to a credit book-out from a supplier for a non-delivery of prior scheduled coal delivery. An additional \$0.7 million (net) is due to lower coal prices at Merrimack 1, Schiller 4, and Schiller 6, partially offset by higher prices at Merrimack 2. The higher generation at Merrimack 2 is due to the higher output of MK2 as the result of the new HP/IP turbine.
- 3. REC revenue earned by Schiller 5 is lower by \$0.2 million reflecting a downward REC price adjustment.
- 4. Newington fuel costs are lower by \$2.7 million and generation is lower by 39.6 GWh. In addition to the 9.6 GWh of Newington output modeled during the April December, 2010 period (reflective of current forward electricity market prices), Newington continues to serve as a physical hedge against

high energy prices caused by abnormal system conditions such as extreme weather and / or high unit outages. The table below shows the forward electricity market prices used in the December, 2009 rates, current values for April through December, 2010, and the change for each month.

Forward Electricity Prices and Changes Between December 2009 and April 2010 Forecasts (\$/MWh)

	D	ec-09	Apr-	-10	Change		
	<u>Peak</u>	Off-peak	<u>Peak</u>	Off-peak	<u>Peak</u>	Off-peak	
Apr-10	54.50	43.10	40.79	32.08	-13.71	-11.02	
May-10	52.30	41.38	41.81	33.30	-10.49	-8.08	
Jun-10	55.15	41.05	43.33	33.17	-11.82	-7.88	
Jul-10	66.11	46.37	49.69	36.38	-16.42	-9.99	
Aug-10	57.98	46.64	49.69	36.38	-8.29	-10.26	
Sep-10	54.84	42.20	44.13	34.02	-10.71	-8.18	
Oct-10	55.52	43.79	44.60	35.13	-10.92	-8.66	
Nov-10	58.89	46.29	48.40	38.13	-10.49	-8.16	
Dec-10	68.74	53.74	54.03	43.30	-14.71	-10.44	

- 5. IPP costs "at market" are lower by \$4.4 million reflecting lower forward electricity market prices, while volumes remain the same.
- 6. Peak and off-peak purchases costs are lower by \$6.2 million and volumes are lower by 57 GWh. Surplus energy sales revenues are higher by \$1.6 million and volumes are higher by 50 GWh. Additionally, congestion and loss adjustment is lower by \$0.2 million. These changes are a result of lower ES loads due to additional migration, the net changes in generation and other purchased resources (addressed as separate items herein), and forward market price changes. Changes in forward electricity market prices are shown above, and changes in sales forecast due to migration are shown below.
- 7. Known purchase costs are lower by \$0.3 million and volume decreased 2.4 GWh. The changes are primarily attributable to correctly recognizing July 5th as a NERC holiday, thus it is considered an off-peak period, and the associated price and MWh effects. Market price changes also contribute to the cost change because the Lempster purchase is partly tied to market prices.
- 8. Total ES sales are lower by 96 GWh. The table below shows the forecasted sales and migration (Non-ES sales) used for calculating the current ES rate and for the update. For consistency with rate setting, values are shown as measured at the customer meter. The amount of migration modeled in the update is as of March, 2010 and is about 30% of forecasted total PSNH sales. Overall, April through December 2010 sales are lower by 2.3% from the estimate which was used for calculating the current ES Rate.

Changes to PSNH ES Sales Forecast

	December 2009 Rate (MWh)		April 2	April 2010 Update (MWh)			Change From December 2009 (MWh)			
	PSNH <u>Sales</u>	Non-ES <u>Sales</u>	ES <u>Sales</u>	PSNH <u>Sales</u>	Non-ES <u>Sales</u>	ES <u>Sales</u>	PSNH <u>Sales</u>	Non-ES <u>Sales</u>	ES <u>Sales</u>	% ES Sales <u>Change</u>
Apr-10	591,690	172,692	418,998	591,690	175,516	416,174	0	2,824	(2,824)	-0.7%
May-10	599,611	175,621	423,990	599,611	177,865	421,746	0	2,245	(2,245)	-0.5%
Jun-10	629,292	179,873	449,419	629,292	186,670	442,622	0	6,797	(6,797)	-1.5%
Jul-10	722,162	195,057	527,105	722,162	214,218	507,944	0	19,161	(19,161)	-3.6%
Aug-10	718,329	200,909	517,420	718,329	213,081	505,248	0	12,172	(12,172)	-2.4%
Sep-10	625,986	178,113	447,873	625,986	185,689	440,297	0	7,576	(7,576)	-1.7%
Oct-10	618,109	174,733	443,376	618,109	183,352	434,757	0	8,620	(8,620)	-1.9%
Nov-10	617,816	169,399	448,417	617,816	183,266	434,550	0	13,866	(13,866)	-3.1%
Dec-10	683,790	179,842	503,948	683,790	202,836	480,954	0	22,993	(22,993)	-4.6%
Subtotal	5,806,785	1,626,239	4,180,546	5,806,785	1,722,492	4,084,293	0	96,253	(96,253)	-2.3%

- 9. Reserve market costs are lower by \$0.2 million, reflecting the net of lower forecasted revenues (\$0.1 million), and lower reserve costs (\$0.3 million) due to lower ES loads.
- 10. RPS costs are lower by \$0.5 million reflecting lower ES loads.
- 11. Capacity costs are lower by \$2.1 million resulting from lower capacity obligations due to increased migration, which lowers the ES peak load share that is the allocator of capacity obligations.
- 12. Miscellaneous expenses, including ISO-NE administration, load and demand response, and MCI/Worldcom/GIS, are lower by \$0.2 million reflecting an update based on a more current review period.
- 13. Regulation costs are lower by \$0.3 million reflecting an update based on a more current review period and lower ES loads.
- 14. ARR revenues are lower by \$0.9 million reflecting an update based on a more current review period and lower ES loads.
- 15. The net F/H O&M and return on rate base are lower by \$4.4 million in the April through December 2010 forecasted period. The F/H O&M, Depreciation, and Taxes are lower by \$1.8 million primarily due to lower ammonia costs. The return on rate base also decreased by \$2.6 million as a result of lower updated rate base caused by lower fossil fuel inventory and net plant and a lower return rate.

- 16. Distribution related company use for the July-December 2010 has been removed which decreased costs by \$0.7 million.
- $17.\,\mathrm{The}$ updated ES revenues decreased by \$8.6 million due to additional customer migration.