

THE STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION

Public Service Company of New Hampshire

RECONCILIATION OF ENERGY SERVICE AND STRANDED COSTS
FOR 2010

Docket No. DE 11-094

Corrections to Frederick B. White's Attachments FBW-2, FBW-3 and FBW-5

Attachments FBW-2 & FBW-3

- ❖ There are corrections to September Off-Peak figures, due to a data error in Short Term (ST) purchases of 40 MWh:
 - In FBW-2, Off-Peak ISO-NE Spot Purchases in September now rounds to 11%, versus 10%. Note that both figures when rounded to one decimal place, round to 10.5%.
 - In FBW-3, Off-Peak Total Bilateral Purchases in September should be 20,064 MWh, versus 20,104 MWh; a decrease of 40 MWh.
 - The associated Total Bilateral Purchase dollars \$(000) should be \$1,012,497, versus \$1,014,567; a decrease of \$2,070.
 - The associated \$/MWh rate for these purchases should be \$50.46/MWh, versus \$50.47/MWh; a decrease of \$0.01/MWh.

This 40 MWh less resources in the ES supply portfolio leads to corrections to Spot Purchases and Sales:

- In FBW-3, Off-Peak Total ISO-NE Spot Purchases in September should be 21,478 MWh, versus 21,458 MWh; an increase of 20 MWh.
- The associated Total ISO-NE Spot Purchases in dollars \$(000) are unchanged.
- The associated \$/MWh rate for these purchases should be \$39.94/MWh, versus \$39.97/MWh; a decrease of \$0.03/MWh.
- In FBW-3, Off-Peak Total ISO-NE Spot Sales in September should be 18,177 MWh, versus 18,197 MWh; a decrease of 20 MWh.
- The associated Total ISO-NE Spot Sales in dollars \$(000) are unchanged.

- The associated \$/MWh rate for these sales should be \$40.88/MWh, versus \$40.84/MWh; an increase of \$0.04/MWh.
- ❖ There are corrections to October Off-Peak figures, due to an incorrect rate applied to one day of a ST 200 MW 2x16 purchase:
 - In FBW-3, Off-Peak Total Bilateral Purchases \$(000) in October should be \$2,263k, versus \$2,424k; a decrease of \$161k.
 - The associated \$/MWh rate decreases to \$40.72/MWh, versus \$43.62/MWh; a decrease of \$2.90/MWh.

There are commensurate changes to Off-Peak Totals in FBW-3 resulting from the above corrections:

- Totals for Bilateral Purchases should be 270,568 MWh (vs. 270,608), \$12,922k (vs. \$13,085k), and \$47.76/MWh (vs. \$48.36).
- Totals for Spot Purchases should be 293,713 MWh (vs. 293,693). The dollars \$(000) and \$/MWh figures are unchanged.
- Totals for Spot Sales should be 252,127 MWh (vs. 252,147) and \$40.44/MWh (vs. \$40.43). The dollar \$(000) figure is unchanged.

Resulting Changes to the Direct Testimony of Frederick B. White

Additionally, there are the following corrections in the text of FBW testimony:

- Page 3, Bates 51, line 31; \$48.36 should be \$47.76, and \$13.1 million should be \$12.9 million.
- Page 4, Bates 52, line 4; \$108.5 million should be \$108.4 million.
- Page 4, Bates 52, line 11; \$40.43 should be \$40.44.

Attachment FBW-5

- ❖ There are corrections to July PSNH Capacity Revenues, [Bethlehem, Lempster, 2 IPPs, 3 hydros, & 2 ICUs]
 - In FBW-5, July PSNH Capacity Revenues should be \$5,491,485, versus \$5,174,916, an increase of \$316,569.
 - The resulting PSNH Net Capacity Expense should be \$784k, versus \$1,101k; a decrease of \$317k.

There are commensurate changes to Totals in FBW-5 resulting from the above corrections:

- Totals for PSNH Capacity Revenues should be \$64,693k (vs. \$64,377k).
- Totals for PSNH Net Capacity Expense should be \$12,554k (vs. \$12,870k).

Resulting Changes to the Direct Testimony of Frederick B. White

Additionally, there are the following corrections in the text of FBW testimony:

- Page 5, Bates 53, line 8; \$12.9 million should be \$12.6 million.
- Page 6, Bates 54, line 21; \$53.4 million should be \$53.7 million.

Attachment FBW-2 - Corrected
PSNH Supply Resources Used to Serve Energy Requirements - 2010

<u>On-Peak</u>	Energy Requirement MWh	PSNH Resource Subtotal	<u>Portion of Requirement Served by...</u>									
			<u>IPP</u>	<u>Buyout Contracts</u>	<u>Vermont Yankee</u>	<u>Hydro</u>	<u>Merrimack and Schiller</u>	<u>Newington and Wyman</u>	<u>Bilateral Purchases</u>	<u>ISO-NE Spot Purchases</u>	<u>Combustion Turbines</u>	
2010												
Jan	261,919	83%	9%	0%	2%	6%	66%	0%	14%	3%	0.00%	
Feb	248,956	82%	8%	1%	3%	5%	65%	1%	15%	3%	0.00%	
Mar	262,849	90%	10%	1%	3%	7%	69%	0%	10%	0%	0.00%	
Apr	230,096	74%	10%	2%	2%	8%	51%	0%	21%	5%	0.03%	
May	224,875	67%	7%	1%	0%	6%	51%	2%	24%	8%	0.04%	
Jun	269,751	76%	6%	1%	3%	4%	58%	4%	21%	3%	0.03%	
Jul	308,977	74%	5%	1%	2%	2%	55%	9%	19%	7%	0.00%	
Aug	295,834	74%	5%	1%	2%	2%	57%	7%	23%	3%	0.05%	
Sep	242,495	70%	7%	1%	3%	2%	52%	6%	24%	5%	0.02%	
Oct	225,208	43%	9%	1%	3%	7%	18%	4%	42%	15%	0.00%	
Nov	235,217	53%	12%	1%	2%	8%	25%	4%	42%	6%	0.00%	
Dec	290,460	90%	11%	1%	3%	7%	68%	0%	10%	1%	0.00%	
Totals	3,096,638	74%	8%	1%	2%	5%	54%	3%	22%	5%	0.02%	

<u>Off-Peak</u>	Energy Requirement MWh	PSNH Resource Subtotal	<u>Portion of Requirement Served by...</u>									
			<u>IPP</u>	<u>Buyout Contracts</u>	<u>Vermont Yankee</u>	<u>Hydro</u>	<u>Merrimack and Schiller</u>	<u>Newington and Wyman</u>	<u>Bilateral Purchases</u>	<u>ISO-NE Spot Purchases</u>	<u>Combustion Turbines</u>	
2010												
Jan	288,454	81%	11%	1%	3%	7%	59%	0%	5%	14%	0.00%	
Feb	217,354	92%	10%	1%	3%	6%	71%	0%	2%	6%	0.00%	
Mar	210,943	96%	13%	2%	4%	9%	68%	0%	2%	2%	0.00%	
Apr	188,496	86%	14%	2%	3%	11%	57%	0%	3%	11%	0.00%	
May	225,760	81%	10%	2%	0%	7%	60%	2%	6%	13%	0.01%	
Jun	213,049	89%	8%	2%	3%	5%	69%	2%	3%	8%	0.00%	
Jul	283,964	79%	7%	1%	3%	3%	62%	4%	6%	14%	0.00%	
Aug	229,901	87%	8%	1%	3%	2%	71%	1%	3%	10%	0.00%	
Sep	204,431	82%	9%	2%	4%	2%	62%	4%	7%	11%	0.00%	
Oct	211,495	48%	12%	2%	4%	9%	17%	3%	26%	27%	0.00%	
Nov	212,454	65%	16%	2%	3%	10%	29%	5%	25%	10%	0.01%	
Dec	233,567	96%	14%	1%	3%	9%	68%	1%	2%	2%	0.00%	
Totals	2,719,868	82%	11%	2%	3%	7%	58%	2%	7%	11%	0.00%	

Note: "Buyout Contracts" refers to IPP replacement purchases (Bio Energy).

Note: "PSNH Resource Subtotal" is the sum of all columns except Bilateral and Spot Purchases.

Note: Lempster PPA is included in "IPPs". Bethlehem & Tamworth PPAs are in "Bilateral Purchases".

Attachment FBW-3 - Corrected
Summary of 2010 PSNH Bilateral and ISO-NE Spot Purchases and Sales

On-Peak

2010	Total Bilateral Purchases MWh	Total Bilateral Purchases \$000	Avg Price \$/MWh	Total ISO-NE Spot Purchases MWh	Total ISO-NE Spot Purchases \$000	Avg Price \$/MWh	Total ISO-NE Spot Sales MWh	Total ISO-NE Spot Sales \$000	Avg Price \$/MWh
Jan	58,986	5,383	91.26	8,453	744	88.02	30,504	1,968	64.53
Feb	64,004	5,693	88.95	7,075	347	49.02	38,585	2,164	56.08
Mar	67,836	6,052	89.21	449	23	52.10	47,515	2,088	43.95
Apr	62,372	5,614	90.01	11,025	498	45.16	13,294	553	41.58
May	56,964	5,122	89.92	18,609	991	53.27	5,307	382	72.00
Jun	64,650	5,772	89.29	7,985	496	62.05	18,296	1,452	79.35
Jul	62,200	5,674	91.22	21,848	1,982	90.73	11,766	1,066	90.57
Aug	74,963	6,621	88.32	9,143	701	76.66	16,936	1,371	80.93
Sep	73,503	6,106	83.07	13,012	664	51.04	17,179	954	55.54
Oct	105,843	7,404	69.95	33,637	1,426	42.40	11,427	414	36.20
Nov	106,377	7,188	67.57	12,946	658	50.83	17,710	841	47.49
Dec	67,610	6,036	89.28	1,880	207	110.14	49,343	3,231	65.48
Totals	865,309	72,666	83.98	146,061	8,737	59.82	277,863	16,483	59.32

Off-Peak

2010	Total Bilateral Purchases MWh	Total Bilateral Purchases \$000	Avg Price \$/MWh	Total ISO-NE Spot Purchases MWh	Total ISO-NE Spot Purchases \$000	Avg Price \$/MWh	Total ISO-NE Spot Sales MWh	Total ISO-NE Spot Sales \$000	Avg Price \$/MWh
Jan	20,975	1,290	61.48	40,543	2,796	68.97	31,392	1,399	44.58
Feb	12,074	718	59.50	12,803	712	55.60	28,316	1,140	40.25
Mar	13,084	683	52.20	4,437	225	50.63	47,628	1,503	31.56
Apr	10,775	562	52.20	20,568	762	37.03	15,817	445	28.11
May	16,958	839	49.48	29,197	1,298	44.46	8,270	294	35.55
Jun	11,830	618	52.20	17,844	860	48.21	21,046	829	39.40
Jul	21,447	1,271	59.25	40,758	2,174	53.33	6,587	231	35.13
Aug	13,949	830	59.50	22,716	1,128	49.67	16,702	648	38.82
Sep	20,064	1,012	50.46	21,478	858	39.94	18,177	743	40.88
Oct	55,581	2,263	40.72	56,228	1,872	33.30	2,117	57	26.76
Nov	61,019	2,167	35.51	22,119	1,042	47.09	10,153	422	41.61
Dec	12,812	669	52.20	5,022	304	60.54	45,922	2,483	54.06
Totals	270,568	12,922	47.76	293,713	14,031	47.77	252,127	10,195	40.44

Attachment FBW-5 - Corrected
Summary of 2010 PSNH Capacity Position and Purchase Activity

<u>2010</u>	<u>Total ISO-NE Capacity Requirement (MW)</u>	<u>PSNH Share of ISO-NE Obligation (%)</u>	<u>PSNH Share of ISO-NE Obligation (MW)</u>	<u>PSNH Capacity Expense (\$000)</u>	<u>PSNH Capacity Resources (MW)</u>	<u>PSNH Capacity Revenues (\$000)</u>	<u>PSNH Net Capacity Expense (\$000)</u>
Jan	37,728	4.61%	1,739	7,130	1,279	5,244	1,887
Feb	38,037	4.55%	1,730	7,092	1,281	5,254	1,838
Mar	39,720	4.48%	1,780	7,299	1,421	5,828	1,471
Apr	39,365	4.45%	1,753	7,187	1,423	5,835	1,352
May	37,963	4.42%	1,677	6,877	1,420	5,824	1,053
Jun	33,829	4.54%	1,537	6,392	1,378	5,565	827
Jul	33,829	4.51%	1,525	6,276	1,378	5,491	784
Aug	33,829	4.49%	1,518	6,055	1,378	5,299	756
Sep	33,829	4.45%	1,505	5,882	1,393	5,240	642
Oct	33,978	4.43%	1,506	5,772	1,411	5,201	572
Nov	33,978	4.39%	1,491	5,750	1,411	5,238	511
Dec	32,727	4.39%	1,437	5,535	1,261	4,675	861
Totals	428,814	4.48%	19,198	77,247	16,437	64,693	12,554

Note: PSNH Resources include Fossil-Hydro Assets, non-utility IPPs, Vermont Yankee and Hydro-Quebec Interconnection Credits.