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Docket No. DE 10-XXX Exhibit No. 2

STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

Public Service Company of New Hampshire Reconciliation of Energy Service and Stranded Costs for Calendar Year 2009

DIRECT TESTIMONY OF DAVID A. ERRICHETTI

1 I. INTRODUCTION

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- 2 Q. Please state your name.
- 3 A. My name is David A. Errichetti .
- 4 Q. Mr. Errichetti, please provide your business address and title.
- A. My business address is 107 Selden St., Berlin, Connecticut. I am a Manager in the
 Wholesale Power Contracts department of Northeast Utilities Service Company
 (NUSCo).
- 8 Q. Mr. Errichetti, please describe your responsibilities at NUSCO.

9	A.	NUSCO provides centralized administrative services to Northeast Utilities' principal
10		subsidiaries, including Public Service Company of New Hampshire (PSNH or the
11		Company), The Connecticut Light and Power Company (CL&P), and Western
12		Massachusetts Electric Company (WMECO). I primarily manage and provide the
13		analytical support required to fulfill the supply requirement obligations of PSNH, CL&P
14		and WMECO. For CL&P and WMECO, I assist in the design and execution of the
15		power supply sourcing contracts associated with these companies' versions of energy
16		service. For PSNH, I assist in the development of the Energy Service rates, the strategy
17		used to procure energy needed to supplement PSNH's resources for the provision of
18		Energy Service, and the strategy used to acquire Financial Transmission Rights (FTR) to
19		manage congestion. I participate in ISO-NE stakeholder meetings and monitor ISO-NE,
20		NEPOOL and FERC activities to ensure that our operations are up to date.

1 Q. What is the purpose of your testimony? 2 A. The purpose of my testimony is to report on how PSNH's generation resources and 3 supplemental purchases were used to meet PSNH's energy and capacity requirements 4 during the period January 1, 2009 through December 31, 2009. As a load-holding entity, 5 PSNH is responsible for having sufficient energy to meet the hourly needs of its customers and is also responsible for its share of the ISO-NE capacity requirement. 6 7 PSNH meets its requirements through its owned generation, PURPA-mandated purchases 8 under short term rates and long term rate orders, and through supplemental purchases of 9 energy and capacity from the market. I will also discuss PSNH's participation in the FTR 10 auction process.

11 III. ENERGY REQUIREMENTS

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Q. Please summarize the generating resources that were available to meet PSNH's energy
 requirements.

14 A. Attachment DAE-1 lists the generating resource portfolio PSNH used to meet its 15 customers' energy requirements as of December 2009. As shown on that Attachment, 16 PSNH's available generation capacity during this time period was about 1,223 MW for 17 the summer months. The portfolio is comprised of the following resource groups: 18 hydroelectric (65 MW from nine stations), nuclear (20 MW from the Vermont Yankee 19 purchased power arrangement), coal and wood (571 MW from Merrimack and Schiller 20 Stations), oil (419 MW from Newington and Wyman 4), combustion turbines (83 MW 21 from five units), and non-utility generation (55 MW from numerous PURPA-mandated 22 purchases and 10 MW from one IPP buyout replacement contract). PSNH's resource 23 portfolio can also be categorized as Baseload (721 MW from hydroelectric, nuclear, coal, 24 wood, non-utility IPPs, and the buyout replacement contract), Intermediate (419 MW 25 from oil resources), and Peaking (83 MW from combustion turbines). PSNH also served 26 a portion of its customers' energy requirements via three (3) unit-contingent power 27 purchase arrangements (Bethlehem, Tamworth and Lempster Wind).

Q. Please summarize how PSNH's generation resources met PSNH's energy requirements
during 2009.

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1 A. Attachment DAE-2 summarizes how PSNH's energy requirements were met and how 2 PSNH's generation resources were utilized by month by on-peak and off-peak periods. 3 On average, 63% of on-peak period energy requirements and 73% of off-peak period 4 energy requirements were met with the generation resources listed on DAE-1. These 5 figures also include the energy produced by Lempster Wind, which came on-line late in 6 2008. The remaining energy needs were met through spot market or bilateral market 7 energy purchases. As noted on Attachment DAE-2, the energy procured via the 8 Bethlehem and Tamworth PPAs is included in the bilateral purchase category.

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9 Q. Was PSNH's generation sufficient to meet PSNH's energy requirements in every month? 10 No. PSNH does not own sufficient generation capability to meet its customers' energy Α. 11 requirements and, therefore, must purchase a portion of its customers' needs. The 12 purchase requirement changes hourly and can range from zero to a significant portion, 13 depending on the availability of PSNH's resources, the level of demand, the migration of 14 customers to competitive energy service options, and the relative economics of PSNH's 15 generation versus purchase alternatives. PSNH's supplemental purchase requirement is 16 heavily influenced by the economics of Newington. When Newington's fuel expense is 17 lower than the cost of purchasing power, the unit is dispatched and PSNH's supplemental 18 need is significantly reduced. During on-peak hours, when PSNH's baseload are likely to 19 be dispatched and intermediate resources (including Newington) are more likely to be 20 dispatched, PSNH requires supplemental purchases that range from zero (during low load 21 months) to approximately 400 MW (during high load months). Typically, Newington is 22 not economic for dispatch during the off-peak hours (weekends, holidays, and weekdays 23 during hours 1-7 and 24). The resulting off-peak purchase requirement will range from 24 zero to 400 MW during the overnight hours and from zero to 600 MW during weekend 25 days. Forced and planned outages increase the need for supplemental purchases.

Q. Please summarize how supplemental purchases were used to meet PSNH's energy
 requirements.

A. Attachment DAE-3 summarizes the purchases made to supplement PSNH's generating
 resources. Approximately 1,189 GWh of on-peak energy were purchased bilaterally at
 an average cost of \$98.12 per MWh (a total expense of \$116.7 million). 88% of the on peak bilateral energy was procured via fixed-price monthly contracts in order to address

1		the forecasted supplemental requirements and planned unit outages. 8% was procured
2		via fixed-price, unit-contingent contracts with the Bethlehem and Tamworth Generating
3		Plants. The remaining bilateral energy (4%) was procured via fixed-price short-term
4		arrangements (e.g. daily, weekly) to address unplanned outages and higher load periods.
5		In addition, approximately 114 GWh of on-peak energy were procured via the ISO-NE
6		hourly spot market at an average cost of \$51.89 per MWh (a total expense of \$5.9
7		million).
8		Approximately 696 GWh of off-peak energy were purchased bilaterally at an average
9		cost of \$78.74 per MWh (a total expense of \$54.8 million). 84% of the off-peak bilateral
10		energy was procured via fixed-price monthly contracts. 13% was procured via fixed-
11		price, unit-contingent contracts with the Bethlehem and Tamworth Generating Plants.
12		The remaining bilateral energy 3% was procured via fixed-price short-term arrangements
13		(e.g. daily, weekly). In addition, approximately 145 GWh of off-peak energy were
14		procured via the ISO-NE hourly spot market at an average cost of \$41.58 per MWh (a
15		total expense of \$6.0 million). The combined expense for all supplemental energy
16		purchases was \$183 million.
17	Q.	Were there any hours in which PSNH's supply resources exceeded PSNH's energy
18		needs?
19	A.	Yes. Attachment DAE-3 summarizes the hours in which supply resources, including
20		supplemental bilateral purchases, exceeded energy requirements resulting in sales to the
21		ISO-NE spot market. Approximately 401 GWh of on-peak energy were sold at an
22		average price of \$44.01 (total revenues of \$17.7 million). In addition, approximately

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- 23 389 GWh of off-peak energy were sold at an average price of \$36.19 (total revenues of
- 24 \$14.1 million). The combined revenue for all surplus energy sales was \$31.8 million.
- Q. Please summarize how commodity prices (oil, natural gas, and energy) varied during
 26 2009.
- A. Attachment DAE-4 is a chart of the 2009 daily prices for residual oil (1% sulfur at New
 York Harbor), natural gas (delivered to Algonquin Gate), and bilateral energy (peak
 hours at the Mass. HUB). The chart shows the range of commodity and energy market
 prices in 2009. The chart also shows the clear continuing correlation between natural gas
 prices and bilateral energy purchase prices in New England.

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1 Q. Please summarize the impact of the commodity market volatility on the cost of serving PSNH's energy requirement. 2 3 A. During 2009, approximately fifty-six percent (56%) of PSNH's energy requirements 4 were met with coal, wood, hydro, and nuclear resources. Newington is capable of 5 operating on either residual fuel oil or natural gas. Because of the diversity of its supply 6 portfolio, PSNH is largely insulated from the extreme volatility of the natural gas market. 7 Even during periods of high and volatile natural gas prices, PSNH's resource mix 8 provides price stability.

9 IV. CAPACITY REQUIREMENTS

Please summarize the supply resources that were used to meet PSNH's capacity 10 Q. 11 requirements. 12 A. Attachment DAE-5 summarizes PSNH's monthly capacity activity. Approximately 69% 13 of PSNH's capacity needs were met with generation resources (including PSNH-owned 14 assets, non-utility IPPs, the Vermont Yankee PPA, and the Hydro-Quebec 15 Interconnection Capacity Credits). The remaining 31% was procured via ISO-NE at a 16 total cost of \$28.7 million (an average of \$3.91 per kw-mo).

17 Q. Please summarize the ISO-NE capacity market rules that were in effect during 2009.

- 18A.The Forward Capacity Market (FCM) Settlement Agreement, which was approved by the19Federal Energy Regulatory Commission (FERC) on June 16, 2006, included an "Installed20Capacity Transition Period" during which all qualified capacity resources are paid a21negotiated fixed rate (the "Installed Capacity Transition Rate") according to the schedule22below. The total payments for capacity resources in each month are charged to ISO-NE
- 23 load serving entities based on their relative share of the prior year's peak demand.

December 1, 2006 to May 31, 2007	\$3.05/kW-month
June 1, 2007 to May 31, 2008	\$3.05/kW-month
June 1, 2008 to May 31, 2009	\$3.75/kW-month

June 1	, 2009 to May 31, 2010	\$4.10/kW-month

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1	Q.	Please describe the cost impact to PSNH's customers associated with the Installed
2		Capacity Transition Period during 2009
3	A.	During 2009, a total of 447,112 MW-months of capacity qualified for the ISO-NE
4		transition payments (this equates to a monthly average of 37,259 MWs). PSNH was
5		allocated 5.27% (23,557 MW-months) of this capacity obligation. PSNH's supply
6		resources qualified for 16,211 MW-months of capacity, comprised of owned generation
7		(13,483 MW-months), non-utility IPPs (1,334 MW-months), the Vermont Yankee
8		purchase agreement (235 MW-months), and the Hydro-Quebec Interconnection Capacity
9		Credits (1,159 MW-months). ISO-NE invoiced PSNH for the net capacity obligation of
10		7,346 MW-months, or approximately \$28.7 million (based on the rates in effect).
11		Attachment DAE-5 provides additional details
12	Q.	Can you estimate the customer capacity savings associated with PSNH's owned
13		generation resources during 2008?
14	A.	Yes. As noted above, PSNH's owned resources, including the Hydro-Quebec
15		Interconnection credits, provided 14,642 MW-months of capacity to ISO-NE. This
16		created over \$57.9 million in revenue which reduced the Energy Service rate.
17	Q.	What capacity market changes will take place following the Transition Period and how
18		might the cost to PSNH's customers be affected?
19	A.	Starting in June 2010, capacity payments to qualified resources will no longer be based
20		on the negotiated fixed transition rates listed above. Instead, market-based auctions will
21		be used to determine capacity clearing prices, with a floor on the clearing price in the first
22		three initial auctions, and as a result of recent rule changes extending for one more initial
23		auction. ISO-NE will conduct periodic competitive auctions to solicit a quantity of new
24		capacity resources that is sufficient to satisfy reliability standards. The initial auction for
25		the year beginning June 2010 was conducted in February 2008 and yielded a final
26		clearing price of \$4.50/kW-month. The initial auction for the year beginning June 2011
27		was conducted in December 2008 and yielded a final clearing price of \$3.60/kW-month.
28		The initial auction for the year beginning June 2012 was conducted in October 2009 and

yielded a final clearing price of \$2.951/kW-month. It is not possible to estimate the
 outcome of future auctions, as they will be based on supplier bidding behavior. Under
 this market design, PSNH's generation resources will continue to provide significant
 customer savings and a valuable hedge against uncertain auction clearing prices.

5 V. FINANCIAL TRANSMISSION RIGHTS

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6 Q. What is a Financial Transmission Right (FTR)?

7 A. An FTR is a financial instrument available to participants seeking to manage congestion 8 costs or those wishing to speculate on the difference in congestion costs between two 9 locations. These instruments have been available since the introduction of the ISO-NE 10 Standard Market Design. All FTRs are defined by a MW amount, a source location and a 11 sink location (e.g. a participant may own 100 MW of FTRs that are sourced at the 12 Merrimack node and sink at the New Hampshire load zone). For each MW of FTR, the owner will receive a credit or a charge from ISO-NE equal to the difference in the 13 14 congestion component of the hourly LMP between the sink and the source. If the sink 15 location congestion price exceeds the source location price, the FTR will have a positive 16 value, i.e. a credit to that participants' ISO-NE settlement in that hour. Similarly, if the 17 sink location price is less than the source location price, the owner will be charged the 18 difference. For additional discussion of FTRs, please see Mr. Richard C. Labrecque's 19 testimony in Docket No. DE 04-071.

20 Q. Please summarize PSNH's participation in the ISO-NE FTR auction process.

21 Α. PSNH has participated in these auctions as a method of hedging the congestion price 22 differential between the major fossil stations (Merrimack, Schiller, and Newington) and 23 the New Hampshire load zone. PSNH has also procured FTRs to hedge the differential 24 between the source location of bilateral purchases (e.g. the Massachusetts HUB) and the 25 New Hampshire load zone. PSNH's generation resources and bilateral purchases provide 26 an effective hedge against the energy component of the zonal LMP, but they do not guard 27 against a congestion component differential. Therefore, even in an hour in which PSNH 28 had sufficient resources to serve its energy requirement, it would be exposed to potential 29 congestion charges. By owning an FTR, PSNH can exchange a fixed, known payment 30 (i.e. the cost of the FTR) for a variable, unknown expense (i.e. the hour-by-hour 31 difference in the applicable LMP congestion components). During 2009, PSNH procured

1		via auction 3,451 GWh of FTRs at a net cost of \$9,590. The FTRs eliminated \$121,850
2		of congestion charges. Thus, the net impact was a decrease in Energy Service expense of
3		\$112,260.
4	Q.	Will PSNH continue to participate in the FTR auction process in order to hedge against
5		unpredictable congestion costs?
6	A.	Yes. FTRs serve as an insurance policy against unanticipated congestion costs. If PSNH
7		did not purchase FTRs and there was a problem on the system that resulted in congestion,
8		the cost could be several times the cost of the FTR. Therefore, it makes sense to continue
9		to purchase FTRs to manage the potentially large downside exposure to congestion costs.
10	Q.	Does that complete your testimony?

11 A. Yes it does.

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Attachment DAE-1 PSNH Resource Portfolio (2009)

	Winter	Summer		Winter	Summer
Resource	Rating	Rating	<u>Interest</u>	Entitlement	Entitlement
	MW	MW		MW	MW
Amoskeag	17.50	17.50	100%	17.50	17.50
Ayers	9.08	9.08	100%	9.08	9.08
Canaan	1.10	1.10	100%	1.10	1.10
Eastman	6.47	6.47	100%	6.47	6.47
Garvins / Hookset	14.00	13.61	100%	14.00	13.61
Gorham	2.05	2.05	100%	2.05	2.05
Jackman	2.37	2.36	100%	2.37	2.36
Smith	16.20	13.07	100%	16.20	13.07
VT Yankee (note 1)	628.00	604.25	3.33%	20.88	20.09
Merrimack 1	114.00	112.50	100%	114.00	112.50
Merrimack 2	321.75	320.00	100%	321.75	320.00
Schiller 4	48.00	47.50	100%	48.00	47.50
Schiller 5	45.82	43.08	100%	45.82	43.08
Schiller 6	48.58	47.94	100%	48.58	47.94
Newington	400.20	400.20	100%	400.20	400.20
Wyman 4	610.38	603.49	3.14%	19.19	18.97
Lost Nation	18.08	14.07	100%	18.08	14.07
Merrimack J1	21.68	16.83	100%	21.68	16.83
Merrimack J2	21.30	16.80	100%	21.30	16.80
Schiller J	19.50	17.62	100%	19.50	17.62
Whitelake	22.40	17.45	100%	22.40	17.45
IPP total (note 2)	87.41	54.96	100%	87.41	54.96
Bio Energy (buyout, note 3)	10.00	10.00	100%	10.00	10.00
Total				1,287.54	1,223.24

Notes:

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1) Vermont Yankee entitlement contract expires March 2012.

2) IPP total does not include Bethlehem, Tamworth, or Lempster Wind PPAs.

3) Bio Energy buyout contract is for energy only (no capacity) and expires July 2015.

4) Hydro-Quebec firm energy contract (not shown) ended August

31, 2001 but interconnection rights and capacity credits continue.

On-Peak		Portion of Requirement Served by									
	Energy	PSNH								ISO-NE	
	Requirement	Resource		<u>Buyout</u>	<u>Vermont</u>		Merrimack	Newington	Bilateral	<u>Spot</u>	Combustion
	<u>MWh</u>	<u>Subtotal</u>	<u>IPP</u>	<u>Contracts</u>	<u>Yankee</u>	<u>Hydro</u>	and Schiller	and Wyman	Purchase	Purchases	<u>Turbines</u>
Jan	353,075	77%	6%	0%	2%	4%	50%	15%	19%	4%	0.00%
Feb	295,226	65%	6%	1%	2%	4%	48%	4%	28%	7%	0.00%
Mar	303,286	79%	9%	1%	2%	6%	60%	0%	20%	1%	0.00%
Apr	290,318	74%	9%	1%	2%	7%	54%	0%	25%	1%	0.00%
May	257,824	69%	7%	1%	3%	7%	52%	0%	26%	5%	0.00%
Jun	291,889	72%	7%	1%	2%	6%	55%	1%	28%	0%	0.00%
Jul	327,057	68%	7%	1%	2%	6%	48%	2%	29%	3%	0.00%
Aug	317,525	36%	5%	1%	2%	5%	20%	3%	54%	10%	0.07%
Sep	260,609	34%	6%	1%	3%	3%	21%	0%	66%	0%	0.00%
Oct	262,830	42%	7%	1%	3%	5%	24%	2%	57%	2%	0.03%
Nov	240,824	59%	9%	1%	3%	7%	26%	14%	40%	1%	0.00%
<u>Dec</u>	<u>308,955</u>	<u>74%</u>	<u>9%</u>	<u>1%</u>	<u>2%</u>	<u>6%</u>	<u>52%</u>	<u>3%</u>	<u>23%</u>	<u>3%</u>	<u>0.00%</u>
Totals	3,509,419	63%	7%	1%	2%	5%	43%	4%	34%	3%	0.01%

Attachment DAE-2 PSNH Supply Resources Used to Serve Energy Requirement (2009)

Off-Peak		Portion of Requirement Served by									
	Energy	PSNH								ISO-NE	
	Requirement	Resource		Buyout	<u>Vermont</u>		<u>Merrimack</u>	Newington	<u>Bilateral</u>	<u>Spot</u>	Combustion_
	<u>MWh</u>	<u>Subtotal</u>	IPP	Contracts	<u>Yankee</u>	<u>Hydro</u>	and Schiller	<u>and Wyman</u>	Purchase	<u>Purchases</u>	<u>Turbines</u>
Jan	348,510	88%	7%	1%	2%	5%	62%	10%	10%	2%	0.00%
Feb	285,807	74%	7%	1%	3%	5%	58%	1%	18%	8%	0.01%
Mar	288,549	92%	11%	1%	3%	8%	69%	0%	7%	1%	0.00%
Apr	232,255	82%	12%	2%	3%	10%	56%	0%	14%	3%	0.00%
May	256,162	86%	9%	1%	3%	9%	63%	0%	10%	5%	0.00%
Jun	227,548	83%	9%	2%	3%	8%	61%	0%	15%	3%	0.00%
Jul	242,678	85%	11%	1%	3%	9%	61%	0%	11%	5%	0.00%
Aug	307,014	44%	8%	1%	3%	7%	25%	0%	44%	12%	0.00%
Sep	222,044	45%	8%	2%	4%	4%	28%	0%	50%	5%	0.02%
Oct	225,757	50%	9%	2%	4%	6%	30%	0%	46%	4%	0.01%
Nov	234,778	57%	12%	2%	3%	9%	30%	1%	41%	2%	0.05%
Dec	272,650	<u>86%</u>	<u>11%</u>	<u>1%</u>	<u>3%</u>	<u>7%</u>	<u>62%</u>	<u>2%</u>	<u>8%</u>	<u>6%</u>	<u>0.00%</u>
Totals	3,143,751	73%	9%	1%	3%	7%	51%	1%	22%	5%	0.01%

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.

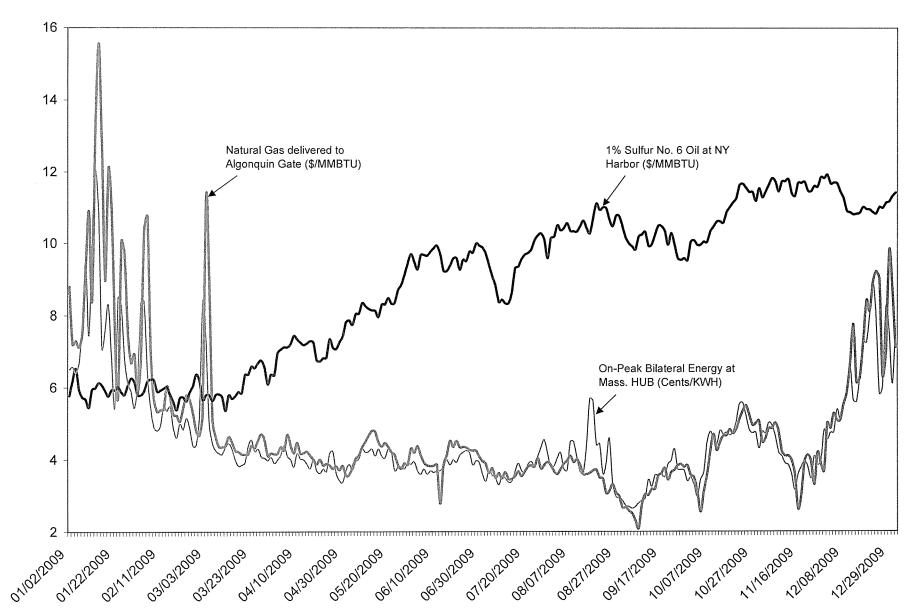
Note: Lempster PPA is included in "IPPs". Bethleham & Tamworth PPAs are in "Bilateral Purchases".

Attachment DAE-3 Summary of 2009 PSNH Bilateral and ISO-NE Spot Purchases and Sales

On-Peak									
:	Total Bilateral	Total Bilateral			Total ISO-NE				
	Purchases	Purchases	Avg Price	Total ISO-NE Spot	Spot Purchases	Avg Price	Total ISO-NE	Total ISO-NE	Avg Price
	<u>MWh</u>	<u>\$000</u>	<u>\$/MWh</u>	Purchases MWh	<u>\$000</u>	<u>\$/MWh</u>	Spot Sales MWh	Spot Sales \$000	<u>\$/MWh</u>
Jan	67,144	8,807	131.17	14,391	1,030	71.57	20,803	1,757	84.44
Feb	83,520	9,788	117.20	20,979	1,101	52.49	12,284	696	56.67
Mar	61,908	6,731	108.73	2,464	194	78.88	33,128	1,286	38.82
Apr	73,315	7,366	100.48	3,288	154	46.80	77,314	2,924	37.82
May	67,592	7,320	108.30	12,668	537	42.40	22,618	899	39.76
Jun	80,864	8,419	104.11	1,388	61	43.99	57,277	2,155	37.62
Jul	94,736	10,053	106.11	10,713	445	41.50	33,215	1,169	35.21
Aug	171,020	14,875	86.98	31,925	1,531	47.94	5,444	332	60.92
Sep	171,961	15,070	87.64	811	37	45.34	24,644	809	32.82
Oct	148,833	12,611	84.73	4,442	193	43.38	22,008	1,048	47.62
Nov	96,417	8,178	84.82	1,317	74	56.33	58,756	2,351	40.02
<u>Dec</u>	71,726	7,450	103.87	9,800	569	58.06	33,855	2,236	66.06
Totals	1,189,036	116,669	98.12	114,185	5,925	51.89	401,346	17,662	44.01

Off-Peak _____

	Total Bilateral	Total Bilateral			Total ISO-NE				
	Purchases	Purchases	Avg Price	Total ISO-NE Spot	Spot Purchases	Avg Price	Total ISO-NE	Total ISO-NE	Avg Price
	MWh	\$000	\$/MWh	Purchases MWh	\$000	\$/MWh	Spot Sales MWh	Spot Sales \$000	<u>\$/MWh</u>
Jan	36,257	3,714	102.44	6,779	460	67.87	41,042	2,794	68.07
Feb	51,484	5,057	98.23	21,616	1,028	47.54	23,552	996	42.28
Mar	20,234	2,080	102.80	2,840	163	57.33	44,209	1,526	34.51
Apr	33,349	3,209	96.22	7,730	291	37.62	56,158	1,586	28.25
May	25,047	2,508	100.12	11,831	455	38.49	45,043	1,406	31.20
Jun	33,637	3,178	94.48	6,054	193	31.91	32,390	899	27.76
Jul	26,070	2,660	102.04	10,946	354	32.34	28,846	712	24.70
Aug	136,584	9,715	71.13	35,841	1,408	39.29	9,013	172	19.10
Sep	110,354	7,738	70.12	12,057	367	30.41	13,648	287	21.05
Oct	103,261	6,552	63.45	8,618	354	41.04	22,958	712	31.00
Nov	96,421	6,132	63.60	5,320	256	48.19	32,195	903	28.04
Dec	23,083	2,243	97.15	15,279	696	45.56	39,805	2,078	52.21
Totals	695,780	54,787	78.74	144,914	6,025	41.58	388,859	14,071	36.19



Attachment DAE-4 2009 Daily Prices (Natural Gas, 1% Oil, Bilateral On-Peak Energy)

Attachment DAE-5 Summary of 2009 PSNH Capacity Position and Purchase Activity

	Total ISO-NE	PSNH Share of	PSNH Share of	Transition Period	PSNH Capacity	PSNH Capacity	PSNH Capacity	PSNH Net
	Capacity Resources	ISO-NE Obligation	ISO-NE Obligation	Payment Rate	Expense	Resources	Revenues	Capacity Expense
	(MW)	(%)	(MW)	(\$/MW-mo)	(\$000)	(MW)	(\$000)	(\$000)
Jan	36,395	5.90%	2,148	3,750	8,055	1,266	4,746	3,308
Feb	36,582	5.81%	2,124	3,750	7,964	1,267	4,753	3,212
Mar	38,631	5.72%	2,212	3,750	8,293	1,407	5,277	3,017
Apr	38,607	5.59%	2,159	3,750	8,095	1,409	5,282	2,812
May	38,726	5.49%	2,125	3,750	7,968	1,405	5,267	2,701
Jun	35,826	5.28%	1,893	4,100	7,761	1,372	5,626	2,134
Jul	35,436	5.18%	1,834	4,100	7,521	1,354	5,550	1,971
Aug	35,363	5.06%	1,790	4,100	7,338	1,349	5,532	1,806
Sep	35,474	4.94%	1,752	4,100	7,185	1,348	5,527	1,658
Oct	39,076	4.83%	1,888	4,100	7,741	1,374	5,633	2,108
Nov	39,005	4.75%	1,854	4,100	7,600	1,393	5,711	1,890
Dec	37,989	4.68%	1,779	4,100	7,294	1,268	5,197	2,097
Totals	447,112	5.27%	23,557		92,815	16,211	64,102	28,713

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