

Public Service Company of New Hampshire  
Docket No. DE 09-091

Data Request STAFF-01  
Dated: 06/15/2009  
Q-STAFF-010  
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Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 1, lines 7-9. Please state how your former responsibilities will be carried out in the future and by whom. As part of your response, please indicate whether your replacement will be in New Hampshire or Connecticut and, if in Connecticut, the reason(s) for moving the position. Related to your new position, please identify the person you replaced.

**Response:**

A replacement is presently being sought from both inside and outside the company. Present expectations are that my replacement will have my former responsibilities after due allowance for learning the job. In the meantime my former responsibilities are being fulfilled through the coordinated efforts of a number of people. The normal reporting location of my replacement may be Berlin, Connecticut or Manchester, New Hampshire. The location will be driven by the preference of my replacement. All applicants will be made aware that their primary responsibility will be to support PSNH's power supply needs and will be expected to work closely with New Hampshire based employees and New Hampshire regulators.

I replaced Mr. Carl Vogel.

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**Witness:** Richard C. Labrecque  
**Request from:** New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 1, line 17 through page 2, line 4. Please describe the 2008 PSNH strategies to a) procure energy to supplement PSNH resources, b) procure capacity to supplement PSNH resources, and c) acquire FTRs to manage congestion. If those strategies have changed from 2007, please explain the changes and the reasoning for those changes.

**Response:**

PSNH's supplemental energy purchase strategy is described in Section V.B.6 of the 2007 Least Cost Integrated Resource Plan, filed Sep 28, 2007 in Docket DE 07-108. Details of the supplemental energy procured for 2008 are provided in response to Q-STAFF-016.

During 2008, supplemental capacity was procured via the ISO-NE administered transition period capacity market. Exhibit RCL-5 summarizes the purchase activity.

PSNH procures FTRs to hedge the potential for congestion between significant supply resources (Merrimack, Schiller, Newington, and the delivery location for bilateral purchases, e.g. the Mass. HUB) and the New Hampshire load zone. See response to Q-STAFF-021 for details of the FTRs purchased during 2008.

**Witness:** Richard C. Labrecque  
**Request from:** New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 3, lines 17-22. Please provide the customer migration assumptions used by PSNH in its capacity and energy purchases and actual capacity and energy requirements for 2008.

**Response:**

The table below compares the customer migration sales estimate used in the initial 2008 ES rate request to the actual migration sales (MWH).

	2008 Customer Migration	
	Estimated	Actual
JAN	20,528	29,206
FEB	19,701	21,382
MAR	20,500	20,482
APR	20,148	36,865
MAY	21,420	32,618
JUN	21,695	28,661
JUL	23,003	19,929
AUG	22,977	16,931
SEP	21,750	11,420
OCT	22,520	17,564
NOV	20,714	36,066
DEC	19,113	50,155
TOTAL	254,068	321,280

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Dated: 06/15/2009  
Q-STAFF-013  
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**Witness:** Richard C. Labrecque  
**Request from:** New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 3, lines 22-23. Please explain how PSNH supplemental purchase requirements are heavily influenced by the economics of Newington when Newington and Wyman combined supply only 2 percent of on-peak and 1 percent of off-peak PSNH energy requirements.

**Response:**

The economics (cost) of running Newington and/or Wyman compared to the available market alternatives will drive the level of market activity that PSNH needs to transact for and therefore these units do heavily influence supply alternatives. For example, in 2003 Newington and Wyman combined to serve 27% of PSNH's on-peak energy requirement, while supplemental power served only 12%. In 2008, the Newington and Wyman contribution was 2% of the on-peak energy, while supplemental power served 44%.

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Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 4, lines 3-13. Please provide a schedule, by month, supporting how the 1795 GWH on-peak bilateral purchased energy breaks down into the components listed with average price for each and total.

**Response:**

See attached.

	2008 On-Peak Bilateral Energy Purchases							
	Monthly Fixed-Price		Unit-Contingent (Bethlehem)		Short-Term Fixed-Price		Total	
	MWh	Avg \$/MWh	MWh	Avg \$/MWh	MWh	Avg \$/MWh	MWh	Avg \$/MWh
Jan	88,000	\$88.17	5,364	\$84.40	35,200	\$92.01	128,564	\$89.06
Feb	100,800	\$88.93	5,126	\$84.40	8,000	\$83.63	113,926	\$88.35
Mar	117,600	\$88.37	3,394	\$72.50	14,400	\$87.17	135,394	\$87.85
Apr	228,800	\$80.60	8,656	\$72.50			237,456	\$80.30
May	201,600	\$79.39	11,092	\$72.50			212,692	\$79.03
Jun	151,200	\$84.39	11,420	\$72.50	28,800	\$125.22	191,420	\$89.83
Jul	140,800	\$90.65	11,645	\$80.47	27,200	\$134.33	179,645	\$96.60
Aug	134,400	\$90.65	9,919	\$76.54	4,000	\$116.00	148,319	\$90.39
Sep	134,400	\$81.92	11,029	\$72.50			145,429	\$81.20
Oct	92,000	\$83.92	12,414	\$71.73			104,414	\$82.47
Nov	76,000	\$83.92	9,499	\$71.67	9,600	\$68.50	95,099	\$81.14
Dec	88,000	\$83.92	10,535	\$72.50	4,000	\$61.05	102,535	\$81.85
Total	1,553,600	\$84.81	110,093	\$74.68	131,200	\$105.10	1,794,893	\$85.67

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Data Request STAFF-01  
Dated: 06/15/2009  
Q-STAFF-015  
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Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 4, lines 14-22. Please provide a schedule, by month, supporting how the 831 GWH off-peak bilateral purchased energy breaks down into the components listed with average price for each and total.

**Response:**

See attached.

2008 Off-Peak Bilateral Energy Purchases								
	Monthly Fixed-Price		Unit-Contingent (Pinetree)		Short-Term Fixed-Price		Total	
	MWh	Avg \$/MWh	MWh	Avg \$/MWh	MWh	Avg \$/MWh	MWh	Avg \$/MWh
Jan	34,000	\$73.80	6,002	\$62.60	800	\$65.00	40,802	\$71.98
Feb	30,800	\$73.72	5,056	\$62.60	9,600	\$72.33	45,456	\$72.19
Mar	52,350	\$75.15	3,731	\$54.50	2,000	\$64.90	58,081	\$73.47
Apr	117,600	\$65.96	9,116	\$54.50			126,716	\$65.14
May	134,000	\$64.20	11,654	\$51.57			145,654	\$63.19
Jun	48,000	\$74.29	11,144	\$54.50	17,600	\$118.41	76,744	\$81.53
Jul	48,400	\$77.23	11,430	\$61.12	24,800	\$124.45	84,630	\$88.89
Aug	52,400	\$77.43	12,984	\$66.22			65,384	\$75.21
Sep	33,600	\$73.86	12,965	\$54.50			46,565	\$68.47
Oct	31,600	\$73.61	12,452	\$54.50			44,052	\$68.21
Nov	38,450	\$74.16	12,547	\$55.19			50,997	\$69.85
Dec	34,000	\$73.80	11,530	\$54.50			45,530	\$68.92
Total	655,200	\$71.13	120,611	\$56.92	54,800	\$110.34	830,611	\$71.67

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Data Request STAFF-01  
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Q-STAFF-016  
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Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 4, lines 21-22. Please combine the totals of the above two requests and add the ISO-NE hourly spot purchases to support that combined expenses were \$267 million.

**Response:**

See attached.

2008 On-Peak Bilateral Energy Purchases

On-Peak	Monthly Fixed-Price		Unit-Contingent (Bethlehem)		Short-Term Fixed-Price		Total Bilateral Purchases	
	MWh	Avg \$/MWh	MWh	Avg \$/MWh	MWh	Avg \$/MWh	MWh	Avg \$/MWh
Jan	88,000	\$88.17	5,364	\$84.40	35,200	\$92.01	128,564	\$89.06
Feb	100,800	\$88.93	5,126	\$84.40	8,000	\$83.63	113,926	\$88.35
Mar	117,600	\$88.37	3,394	\$72.50	14,400	\$87.17	135,394	\$87.85
Apr	228,800	\$80.60	8,656	\$72.50			237,456	\$80.30
May	201,600	\$79.39	11,092	\$72.50			212,692	\$79.03
Jun	151,200	\$84.39	11,420	\$72.50	28,800	\$125.22	191,420	\$89.83
Jul	140,800	\$90.65	11,645	\$80.47	27,200	\$134.33	179,645	\$96.60
Aug	134,400	\$90.65	9,919	\$76.54	4,000	\$116.00	148,319	\$90.39
Sep	134,400	\$81.92	11,029	\$72.50			145,429	\$81.20
Oct	92,000	\$83.92	12,414	\$71.73			104,414	\$82.47
Nov	76,000	\$83.92	9,499	\$71.67	9,600	68.50	95,099	\$81.14
Dec	88,000	\$83.92	10,535	\$72.50	4,000	61.05	102,535	\$81.85
Total	1,553,600	\$84.81	110,093	\$74.68	131,200	\$105.10	1,794,893	\$85.67

ISO-NE Spot Market Purchases	
MWh	Avg \$/MWh
20,123	\$98.73
20,244	\$98.12
10,967	\$112.71
1,024	\$252.45
1,669	\$100.45
10,147	\$138.62
36,271	\$144.89
16,490	\$92.90
34,898	\$77.63
53,569	\$69.22
26,264	\$75.50
19,923	\$77.01
251,589	\$94.45

Total Supplemental Purchases		
MWh	Cost \$000	Avg \$/MWh
148,687	13,437	\$90.37
134,171	12,052	\$89.82
146,361	13,130	\$89.71
238,479	19,327	\$81.04
214,361	16,977	\$79.20
201,567	18,601	\$92.28
215,916	22,610	\$104.71
164,809	14,939	\$90.64
180,327	14,519	\$80.51
157,982	12,319	\$77.98
121,363	9,699	\$79.92
122,458	9,927	\$81.07
2,046,482	177,537	\$86.75

2008 Off-Peak Bilateral Energy Purchases

Off-Peak	Monthly Fixed-Price		Unit-Contingent (Bethlehem)		Short-Term Fixed-Price		Total Bilateral Purchases	
	MWh	Avg \$/MWh	MWh	Avg \$/MWh	MWh	Avg \$/MWh	MWh	Avg \$/MWh
Jan	34,000	\$73.80	6,002	\$62.60	800	65.00	40,802	\$71.98
Feb	30,800	\$73.72	5,056	\$62.60	9,600	\$72.33	45,456	\$72.19
Mar	52,350	\$75.15	3,731	\$54.50	2,000	64.90	58,081	\$73.47
Apr	117,600	\$65.96	9,116	\$54.50			126,716	\$65.14
May	134,000	\$64.20	11,654	\$51.57			145,654	\$63.19
Jun	48,000	\$74.29	11,144	\$54.50	17,600	\$118.41	76,744	\$81.53
Jul	48,400	\$77.23	11,430	\$61.12	24,800	124.45	84,630	\$88.89
Aug	52,400	\$77.43	12,984	\$66.22			65,384	\$75.21
Sep	33,600	\$73.86	12,965	\$54.50			46,565	\$68.47
Oct	31,600	\$73.61	12,452	\$54.50			44,052	\$68.21
Nov	38,450	\$74.16	12,547	\$55.19			50,997	\$69.85
Dec	34,000	\$73.80	11,530	\$54.50			45,530	\$68.92
Total	655,200	\$71.13	120,611	\$56.92	54,800	\$110.34	830,611	\$71.67
2008 Total	2,208,800	\$80.75	230,704	\$65.40	186,000	\$106.64	2,625,504	\$81.24

ISO-NE Spot Market Purchases	
MWh	Avg \$/MWh
30,653	\$74.46
30,350	\$79.53
20,744	\$78.18
23,593	\$86.54
7,478	\$94.17
41,298	\$96.51
67,282	\$97.72
18,796	\$73.65
64,962	\$66.40
34,559	\$61.35
23,484	\$62.85
16,523	\$81.38
379,721	\$79.70

Total Supplemental Purchases		
MWh	Cost \$000	Avg \$/MWh
71,454	5,220	\$73.05
75,806	5,695	\$75.13
78,824	5,889	\$74.71
150,309	10,296	\$68.50
153,132	9,908	\$64.70
118,042	10,243	\$86.77
151,912	14,097	\$92.80
84,180	6,302	\$74.86
111,527	7,502	\$67.26
78,611	5,125	\$65.19
74,481	5,038	\$67.64
62,054	4,482	\$72.24
1,210,332	89,796	\$74.19
3,256,814	267,333	\$82.08

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Data Request STAFF-01  
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Q-STAFF-017  
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Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 4, lines 27-28. Please provide a schedule, by month, supporting how the 169 GWH of energy that was sold on-peak and the average price received.

**Response:**

See the attached table, which answers both Q-STAFF-017 and Q-STAFF-018.

**2008 On-Peak**

	<u>Total ISO-NE Spot</u>	<u>Surplus Sales</u>	<u>Surplus Sales</u>	<u>Total ISO-NE Spot</u>	<u>Avg Sale</u>
	<u>Sales</u>	<u>from Generation</u>	<u>from Bilateral</u>	<u>Sales</u>	
	<u>MWh</u>	<u>MWh</u>	<u>MWh</u>	<u>\$000</u>	<u>\$/MWh</u>
Jan	9,480	60	9,420	866	91.31
Feb	4,647	34	4,613	287	61.72
Mar	18,819	258	18,560	1,350	71.72
Apr	26,783	7	26,775	2,589	96.66
May	35,981	0	35,980	3,846	106.88
Jun	16,441	0	16,441	1,743	106.04
Jul	9,699	29	9,670	1,064	109.74
Aug	21,161	40	21,122	1,484	70.14
Sep	4,466	3	4,463	285	63.81
Oct	915	0	915	51	56.24
Nov	5,817	0	5,817	313	53.89
<u>Dec</u>	<u>14,985</u>	<u>1,709</u>	<u>13,277</u>	<u>780</u>	<u>52.08</u>
Totals	169,193	2,140	167,053	14,659	86.64

**2008 Off-Peak**

	<u>Total ISO-NE Spot</u>	<u>Surplus Sales</u>	<u>Surplus Sales</u>	<u>Total ISO-NE Spot</u>	<u>Avg Sale</u>
	<u>Sales</u>	<u>from Generation</u>	<u>from Bilateral</u>	<u>Sales</u>	
	<u>MWh</u>	<u>MWh</u>	<u>MWh</u>	<u>\$000</u>	<u>\$/MWh</u>
Jan	5,869	727	5,142	485	82.65
Feb	5,362	702	4,660	269	50.16
Mar	17,083	2,809	14,274	1,130	66.13
Apr	4,385	0	4,385	326	74.27
May	42,582	1,221	41,361	3,414	80.16
Jun	6,850	406	6,444	416	60.67
Jul	2,938	17	2,920	210	71.44
Aug	11,837	932	10,905	676	57.15
Sep	2,941	184	2,757	167	56.94
Oct	2,789	106	2,683	130	46.67
Nov	17,455	4,129	13,325	845	48.43
<u>Dec</u>	<u>24,503</u>	<u>7,598</u>	<u>16,905</u>	<u>1,017</u>	<u>41.49</u>
Totals	144,593	18,831	125,762	9,084	62.83

**2008 Totals**

	<u>Total ISO-NE Spot</u>	<u>Surplus Sales</u>	<u>Surplus Sales</u>	<u>Total ISO-NE Spot</u>	<u>Avg Sale</u>
	<u>Sales</u>	<u>from Generation</u>	<u>from Bilateral</u>	<u>Sales</u>	
	<u>MWh</u>	<u>MWh</u>	<u>MWh</u>	<u>\$000</u>	<u>\$/MWh</u>
Jan	15,348	787	14,561	1,351	88.00
Feb	10,009	736	9,273	556	55.53
Mar	35,902	3,067	32,834	2,479	69.06
Apr	31,168	7	31,161	2,915	93.51
May	78,563	1,221	77,341	7,259	92.40
Jun	23,291	406	22,885	2,159	92.69
Jul	12,636	46	12,590	1,274	100.84
Aug	32,998	972	32,027	2,161	65.48
Sep	7,407	186	7,221	452	61.08
Oct	3,703	106	3,598	182	49.04
Nov	23,272	4,129	19,142	1,159	49.79
<u>Dec</u>	<u>39,489</u>	<u>9,307</u>	<u>30,181</u>	<u>1,797</u>	<u>45.51</u>
Totals	313,786	20,971	292,815	23,743	75.67

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Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 4, lines 28-30. Please repeat the above request for the 145 GHW of off-peak energy sales and combine the two to support that combined revenue was \$23.7 million.

**Response:**

See response to Q-STAFF-017.

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**Witness:** Richard C. Labrecque  
**Request from:** New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 5, lines 15-16. Please explain how PSNH's resource mix provides price stability during periods of high and volatile natural gas prices .

**Response:**

As detailed in the testimony, PSNH's power supply portfolio includes hydro , nuclear, coal, and biomass generation, as well as a unit capable of burning either residual fuel oil or natural gas . A diversified portfolio, such as PSNH's, provides a more stable power supply price than a portfolio that is less balanced, e.g. a portfolio that is entirely based on resources that utilize natural gas . With a diversified portfolio, a change in the price of a single fuel source will have less of an impact on PSNH than if PSNH relied solely on that fuel source .

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Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

Question:  
Reference Labrecque testimony, page 8, lines 6-8. With a declining capacity factor at Newington, why does PSNH procure FTRs for this station?

Response:  
On-peak FTRs were purchased for Newington in the months of July and August. The FTRs were purchased to support anticipated operation of Newington in those months.

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Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, page 8, lines 6-19. Please provide by month and in the form provided in previous dockets, the value and cost of FTRs. As part of your response, please also list the FTR amounts for Merrimack, Schiller and Newington stations.

**Response:**

The attached tables provide the requested information.

Cost and Value of FTRs

2008	Month	FTR Auction \$	FTR Value \$	Net FTR \$
	Jan	(92,803)	(9,389)	(102,192)
	Feb	(55,695)	20,523	(35,172)
	Mar	(44,076)	6,057	(38,019)
	Apr	3,553	(12,871)	(9,318)
	May	(20,405)	108,089	87,685
	Jun	(160,173)	(140,781)	(300,954)
	Jul	(156,914)	219,298	62,384
	Aug	(163,006)	11,895	(151,111)
	Sep	(62,923)	13,558	(49,365)
	Oct	13,777	(30,654)	(16,877)
	Nov	(46,805)	44,852	(1,953)
	Dec	(41,657)	6,396	(35,261)
	Total	(827,127)	236,974	(590,153)

Note

FTR Auction \$ - this is the amount paid to (-) or received from (+) ISO based on the auction clearing price of awarded FTRs

FTR Value \$ - this is the amount paid to (-) or received from (+) ISO based on the realized value of the awarded FTRs

Net FTR \$ - the sum of the auction dollars and market value of the awarded FTRs

[FTR Value includes partial refund of under-funded target allocations via the ISO-NE Congestion Revenue Fund]

Source	Month	FTR Quantity	
		On-Peak	Off-Peak
<b>Merrimack</b>	Jan - Dec		
	Jan	400	400
	Feb	400	400
	Mar	400	400
	Apr	100	100
	May	100	100
	Jun	400	270
	Jul	350	350
	Aug	400	400
	Sep	300	300
	Oct	125	225
	Nov	400	400
	Dec	275	400
<b>Schiller</b>	Jan - Dec	45	
	Jan	75	75
	Feb	75	75
	Mar	75	75
	Apr	44	50
	May	44	50
	Jun	75	75
	Jul	75	75
	Aug	75	75
	Sep	75	75
	Oct	75	75
	Nov	46	75
	Dec	75	75
<b>Newington</b>	Jan - Dec		
	Jan		
	Feb		
	Mar		
	Apr		
	May		
	Jun		
	Jul	150	
	Aug	200	
	Sep		
	Oct		
	Nov		
	Dec		

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Data Request STAFF-01  
Dated: 06/15/2009  
Q-STAFF-023  
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Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, RCL-2 and RCL-3. Please provide by month for peak, off-peak, and total values and in the form provided in previous dockets: Information on bilateral purchases and costs, spot purchases and costs, and sales of surplus purchases. Actual purchase quantities compared to those in the rate request in both tabular and graphic form. Total supplemental purchases and the percent breakdown by monthly bilateral, short term bilateral and spot purchases. As part of your response, please supply annual figures from 2004 through 2008. Spot sale MWHs and value to ISO-NE from PSNH units and bilateral surplus sales.

**Response:**

The attached file provides the following information :

- Q23-a bilateral and spot market purchase and sale details.
- Q23-b compares actual 2008 bilateral and spot market purchase quantities with the forecasted quantities in the Nov 2007 rate request filing. Includes data and two charts.
- Q23-c breaks total supplemental purchase quantities into "monthly bilateral", "short-term bilateral" (i.e. less than one month), and "spot market".
- Q23-d breaks total surplus sale quantities into surplus generation vs surplus bilateral purchases .

[Q-23a] Summary of 2008 PSNH Bilateral Purchases and ISO-NE Spot Purchases & Sales

Peak

	Total Bilateral			Sales of Surplus			Total ISO-NE Spot		Total ISO-NE	
	Purchases	Purchases	Avg Price	Purchases	Percent (%) Sold as	Profit / (Loss) on Sales	Purchases	Spot Purchases	Avg Price	
	MWh	\$000	\$/MWh	MWh	Surplus	\$000	MWh	\$000	\$/MWh	
Jan	128,564	11,450,520	89.06	9,420	7%	24,372	20,123	1,986,826	98.73	
Feb	113,926	10,065,298	88.35	4,613	4%	(120,590)	20,244	1,986,365	98.12	
Mar	135,394	11,893,738	87.85	18,560	14%	(296,114)	10,967	1,236,048	112.71	
Apr	237,456	19,068,812	80.30	26,775	11%	437,936	1,024	258,430	252.45	
May	212,692	16,809,516	79.03	35,980	17%	1,001,670	1,669	167,667	100.45	
Jun	191,420	17,194,580	89.83	16,441	9%	320,199	10,147	1,406,609	138.62	
Jul	179,645	17,354,365	96.60	9,670	5%	136,666	36,271	5,255,185	144.89	
Aug	148,319	13,406,532	90.39	21,122	14%	(418,139)	16,490	1,531,985	92.90	
Sep	145,429	11,809,466	81.20	4,463	3%	(77,502)	34,898	2,709,154	77.63	
Oct	104,414	8,611,115	82.47	915	1%	(23,976)	53,569	3,708,077	69.22	
Nov	95,099	7,716,360	81.14	5,817	6%	(150,116)	26,264	1,983,028	75.50	
Dec	102,535	8,392,972	81.85	13,277	13%	(396,755)	19,923	1,534,244	77.01	
Totals	1,794,893	153,773,275	85.67	167,053	9%	437,652	251,589	23,763,620	94.45	

Off-Peak

	Total Bilateral			Sales of Surplus			Total ISO-NE Spot		Total ISO-NE	
	Purchases	Purchases	Avg Price	Purchases	Percent (%) Sold as	Profit / (Loss) on Sales	Purchases	Spot Purchases	Avg Price	
	MWh	\$000	\$/MWh	MWh	Surplus	\$000	MWh	\$000	\$/MWh	
Jan	40,802	2,937,057	71.98	5,142	13%	87,097	30,653	2,282,447	74.46	
Feb	45,456	3,281,529	72.19	4,660	10%	(80,185)	30,350	2,413,625	79.53	
Mar	58,081	4,267,168	73.47	14,274	25%	(71,489)	20,744	1,621,783	78.18	
Apr	126,716	8,253,972	65.14	4,385	3%	43,863	23,593	2,041,730	86.54	
May	145,654	9,203,587	63.19	41,361	28%	738,340	7,478	704,205	94.17	
Jun	76,744	6,257,270	81.53	6,444	8%	(75,201)	41,298	3,985,824	96.51	
Jul	84,630	7,522,771	88.89	2,920	3%	(34,891)	67,282	6,574,485	97.72	
Aug	65,384	4,917,272	75.21	10,905	17%	(135,612)	18,796	1,384,426	73.65	
Sep	46,565	3,188,180	68.47	2,757	6%	(19,858)	64,962	4,313,556	66.40	
Oct	44,052	3,004,794	68.21	2,683	6%	(45,695)	34,559	2,120,157	61.35	
Nov	50,997	3,562,207	69.85	13,325	26%	(225,849)	23,484	1,475,855	62.85	
Dec	45,530	3,137,761	68.92	16,905	37%	(395,967)	16,523	1,344,725	81.38	
Totals	830,611	59,533,567	71.67	125,762	15%	(215,447)	379,721	30,262,819	79.70	

Total

	Total Bilateral			Sales of Surplus			Total ISO-NE Spot		Total ISO-NE	
	Purchases	Purchases	Avg Price	Purchases	Percent (%) Sold as	Profit / (Loss) on Sales	Purchases	Spot Purchases	Avg Price	
	MWh	\$000	\$/MWh	MWh	Surplus	\$000	MWh	\$000	\$/MWh	
Jan	169,366	14,387,576	84.95	14,561	9%	111,468	50,775	4,269,273	84.08	
Feb	159,382	13,346,826	83.74	9,273	6%	(200,775)	50,594	4,399,990	86.97	
Mar	193,475	16,160,906	83.53	32,834	17%	(367,604)	31,711	2,857,831	90.12	
Apr	364,172	27,322,785	75.03	31,161	9%	481,799	24,617	2,300,160	93.44	
May	358,346	26,013,103	72.59	77,341	22%	1,740,011	9,147	871,872	95.32	
Jun	268,164	23,451,850	87.45	22,885	9%	244,999	51,445	5,392,433	104.82	
Jul	264,275	24,877,136	94.13	12,590	5%	101,775	103,553	11,829,670	114.24	
Aug	213,703	18,323,804	85.74	32,027	15%	(553,751)	35,286	2,916,412	82.65	
Sep	191,994	14,997,646	78.12	7,221	4%	(97,360)	99,860	7,022,711	70.33	
Oct	148,466	11,615,909	78.24	3,598	2%	(69,671)	88,128	5,828,234	66.13	
Nov	146,097	11,278,567	77.20	19,142	13%	(375,965)	49,748	3,458,883	69.53	
Dec	148,066	11,530,734	77.88	30,181	20%	(792,721)	36,446	2,878,969	78.99	
Totals	2,625,504	213,306,842	81.24	292,815	11%	222,204	631,310	54,026,439	85.58	

[Q-23b]

Actual 2008 Purchase Quantities	Purchase Quantities Filed with Rate Request
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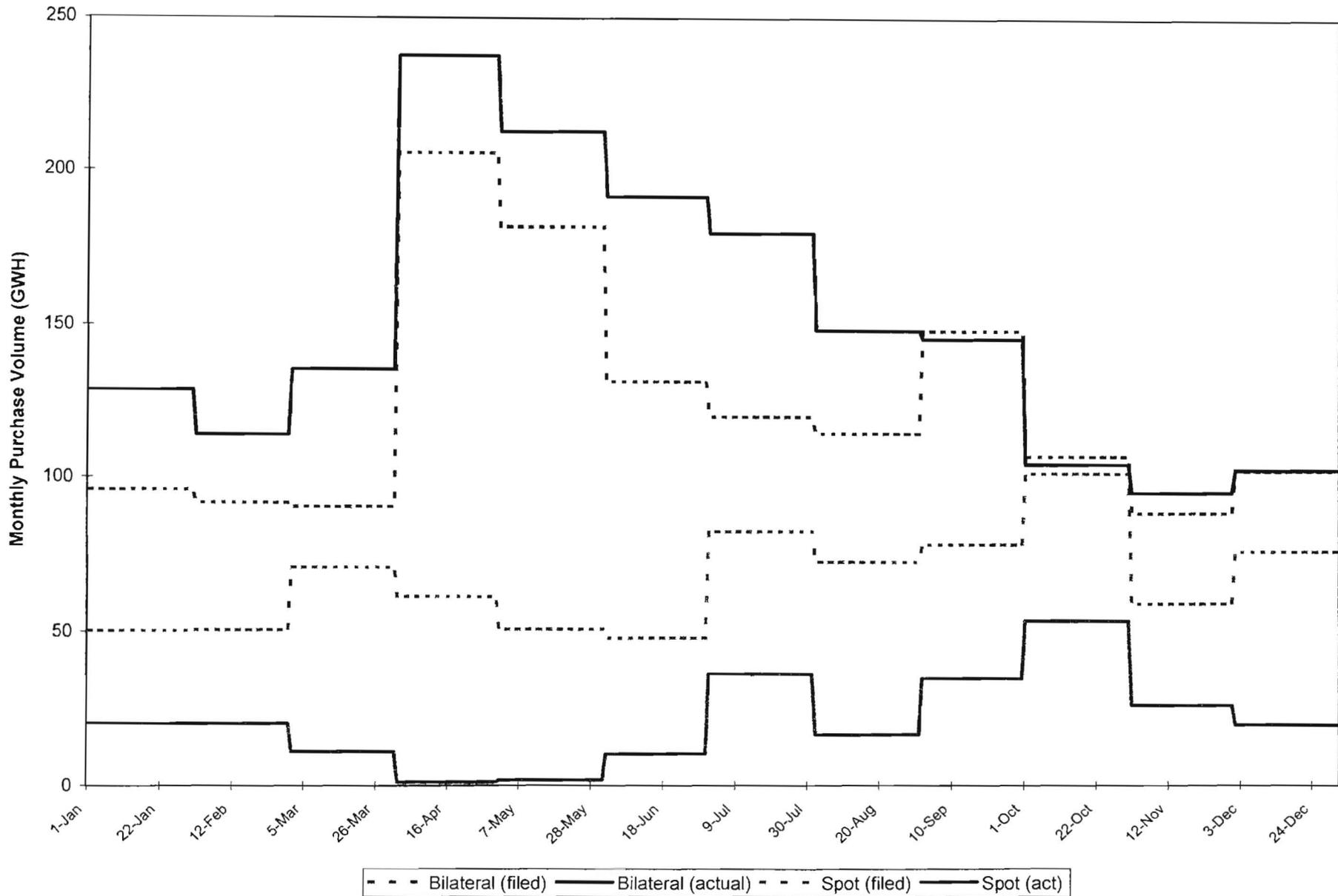
**Peak**

	<u>Total Bilateral</u>	<u>Total ISO-NE Spot</u>	<u>Total Bilateral</u>	<u>Total ISO-NE Spot</u>
	<u>Purchases</u>	<u>Purchases</u>	<u>Purchases</u>	<u>Purchases</u>
	<u>MWh</u>	<u>MWh</u>	<u>MWh</u>	<u>MWh</u>
1	128,564	20,123	95,848	50,295
2	113,926	20,244	91,688	50,596
3	135,394	10,967	90,387	70,750
4	237,456	1,024	205,669	61,346
5	212,692	1,669	181,674	50,879
6	191,420	10,147	131,369	47,936
7	179,645	36,271	119,925	82,287
8	148,319	16,490	114,474	72,527
9	145,429	34,898	148,169	78,132
10	104,414	53,569	106,976	101,384
11	95,099	26,264	88,457	59,111
12	102,535	19,923	102,325	75,851
Totals	1,794,893	251,589	1,476,958	801,096

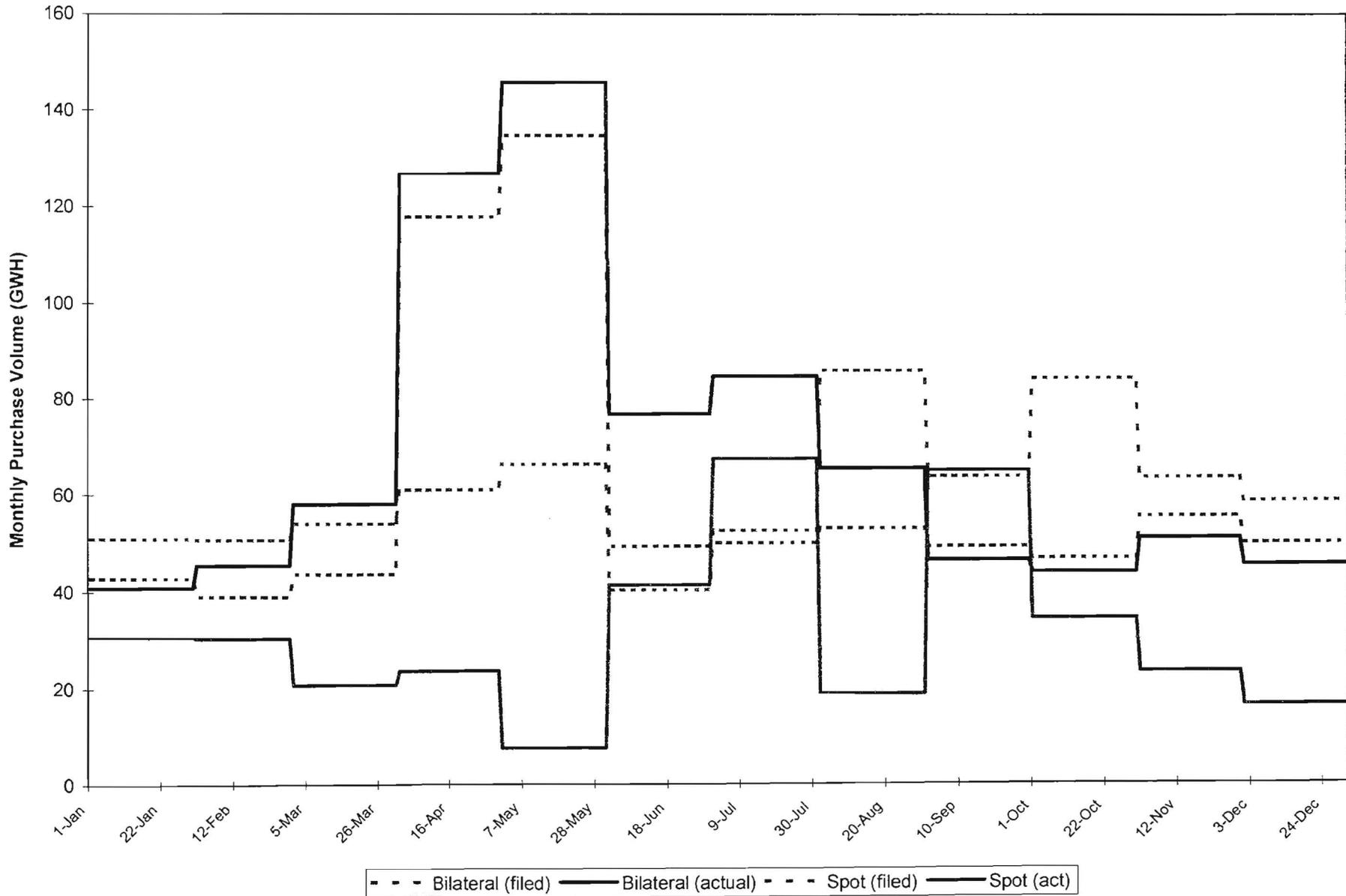
**Off-Peak**

	<u>Total Bilateral</u>	<u>Total ISO-NE Spot</u>	<u>Total Bilateral</u>	<u>Total ISO-NE Spot</u>
	<u>Purchases</u>	<u>Purchases</u>	<u>Purchases</u>	<u>Purchases</u>
	<u>MWh</u>	<u>MWh</u>	<u>MWh</u>	<u>MWh</u>
1	40,802	30,653	42,740	50,843
2	45,456	30,350	39,037	50,641
3	58,081	20,744	43,620	54,011
4	126,716	23,593	117,819	60,948
5	145,654	7,478	134,604	66,207
6	76,744	41,298	49,336	40,301
7	84,630	67,282	49,952	52,452
8	65,384	18,796	53,004	85,812
9	46,565	64,962	49,336	63,633
10	44,052	34,559	46,901	84,202
11	50,997	23,484	55,447	63,389
12	45,530	16,523	49,952	58,528
Totals	830,611	379,721	731,746	730,967

### 2008 On-Peak Bilateral and Spot Purchase Activity (Actual vs Originally Filed)



### 2008 Off-Peak Bilateral and Spot Purchase Activity (Actual vs Originally Filed)



Q-23c Month	On-Peak Power				Off-Peak Power			
	Total Supplemental Purchases MWh	% Monthly Bilateral Purchases	% Short-Term Bilateral Purchases	% ISO-NE Spot Market Purchases	Total Supplemental Purchases MWh	% Monthly Bilateral Purchases	% Short-Term Bilateral Purchases	% ISO-NE Spot Market Purchases
Jan-04	54,506	92%	0%	8%	13,455	0%	0%	100%
Feb-04	66,872	72%	11%	17%	23,539	0%	0%	100%
Mar-04	141,420	78%	8%	14%	63,115	0%	28%	72%
Apr-04	107,401	98%	0%	2%	49,482	0%	3%	97%
May-04	56,608	0%	42%	58%	23,996	0%	13%	87%
Jun-04	53,239	0%	8%	92%	25,283	0%	19%	81%
Jul-04	89,903	75%	12%	14%	27,426	0%	0%	100%
Aug-04	96,156	73%	12%	15%	39,364	0%	24%	76%
Sep-04	44,180	38%	13%	49%	32,448	0%	79%	21%
Oct-04	139,256	0%	78%	22%	78,562	0%	57%	43%
Nov-04	13,097	0%	18%	82%	40,255	0%	83%	17%
Dec-04	37,819	0%	36%	64%	13,814	0%	12%	88%
Jan-05	77,635	65%	24%	11%	20,082	0%	14%	86%
Feb-05	58,386	44%	32%	25%	25,207	0%	44%	56%
Mar-05	150,227	93%	6%	1%	67,053	85%	0%	15%
Apr-05	100,550	92%	0%	8%	58,987	94%	0%	7%
May-05	191,362	98%	0%	2%	141,334	91%	0%	9%
Jun-05	168,685	89%	2%	9%	105,184	81%	3%	16%
Jul-05	93,220	69%	2%	30%	54,264	68%	6%	26%
Aug-05	109,491	67%	1%	32%	47,339	48%	0%	52%
Sep-05	146,184	83%	2%	16%	71,578	90%	0%	10%
Oct-05	148,895	81%	4%	15%	112,187	78%	1%	21%
Nov-05	111,916	90%	0%	10%	65,306	94%	0%	6%
Dec-05	67,592	87%	0%	13%	78,757	92%	0%	8%
Jan-06	57,045	94%	0%	6%	57,578	81%	0%	19%
Feb-06	130,771	37%	58%	5%	79,510	0%	58%	42%
Mar-06	147,864	100%	0%	0.4%	47,472	81%	0%	19%
Apr-06	176,562	100%	0%	0.3%	126,109	95%	0%	5%
May-06	221,370	95%	1%	4%	129,261	68%	3%	29%
Jun-06	156,009	90%	5%	5%	75,531	91%	0%	9%
Jul-06	121,246	53%	30%	17%	121,614	88%	7%	5%
Aug-06	149,314	49%	28%	23%	92,702	95%	0%	5%
Sep-06	187,516	94%	4%	2%	104,375	57%	8%	35%
Oct-06	158,657	100%	0%	0.2%	70,868	96%	0%	4%
Nov-06	151,615	100%	0%	0.3%	87,183	99%	0%	1%
Dec-06	157,354	92%	4%	5%	114,077	87%	0%	13%
Jan-07	73,910	55%	23%	22.3%	75,638	90%	0%	10%
Feb-07	50,642	73%	11%	16.0%	70,540	87%	5%	9%
Mar-07	115,478	66%	26%	8.7%	58,315	81%	0%	19%
Apr-07	157,269	88%	1%	10.5%	78,215	59%	4%	37%
May-07	194,826	75%	6%	19.1%	112,347	76%	0%	24%
Jun-07	148,246	83%	9%	8.1%	72,858	64%	9%	27%
Jul-07	181,284	77%	14%	8.9%	89,081	79%	0%	21%
Aug-07	193,398	89%	2%	9.4%	92,606	67%	14%	19%
Sep-07	152,442	73%	17%	10.3%	103,988	51%	22%	27%
Oct-07	133,175	73%	10%	16.4%	57,284	75%	0%	25%
Nov-07	107,760	83%	0%	17.3%	54,579	86%	0%	14%
Dec-07	133,305	88%	0%	12.3%	79,321	68%	0%	32%
Jan-08	148,687	63%	24%	13.5%	71,454	56%	1%	43%
Feb-08	134,171	79%	6%	15.1%	75,806	47%	13%	40%
Mar-08	146,361	83%	10%	7.5%	78,824	71%	3%	26%
Apr-08	238,479	100%	0%	0.4%	150,309	84%	0%	16%
May-08	214,361	99%	0%	0.8%	153,132	95%	0%	5%
Jun-08	201,567	81%	14%	5.0%	118,042	50%	15%	35%
Jul-08	215,916	71%	13%	16.8%	151,912	39%	16%	44%
Aug-08	164,809	88%	2%	10.0%	84,180	78%	0%	22%
Sep-08	180,327	81%	0%	19.4%	111,527	42%	0%	58%
Oct-08	157,982	66%	0%	33.9%	78,611	56%	0%	44%
Nov-08	121,363	70%	8%	21.6%	74,481	68%	0%	32%
Dec-08	122,458	80%	3%	16.3%	62,054	73%	0%	27%
2004	900,457	52%	22%	26%	430,738	0%	33%	67%
2005	1,424,144	83%	4%	13%	847,280	79%	3%	18%
2006	1,815,322	85%	10%	5%	1,106,280	79%	6%	15%
2007	1,641,733	78%	9%	13%	944,774	73%	5%	22%

**[Q-23d]  
 2008 On-Peak**

	<u>Total ISO-NE Spot</u>	<u>Surplus Sales</u>	<u>Surplus Sales</u>	<u>Total ISO-NE Spot</u>	<u>Avg Sale</u>
	<u>Sales</u>	<u>from Generation</u>	<u>from Bilateral</u>	<u>Sales</u>	
	<u>MWh</u>	<u>MWh</u>	<u>MWh</u>	<u>\$000</u>	<u>\$/MWh</u>
Jan	9,480	60	9,420	866	91.31
Feb	4,647	34	4,613	287	61.72
Mar	18,819	258	18,560	1,350	71.72
Apr	26,783	7	26,775	2,589	96.66
May	35,981	0	35,980	3,846	106.88
Jun	16,441	0	16,441	1,743	106.04
Jul	9,699	29	9,670	1,064	109.74
Aug	21,161	40	21,122	1,484	70.14
Sep	4,466	3	4,463	285	63.81
Oct	915	0	915	51	56.24
Nov	5,817	0	5,817	313	53.89
<u>Dec</u>	<u>14,985</u>	<u>1,709</u>	<u>13,277</u>	<u>780</u>	<u>52.08</u>
Totals	169,193	2,140	167,053	14,659	86.64

**2008 Off-Peak**

	<u>Total ISO-NE Spot</u>	<u>Surplus Sales</u>	<u>Surplus Sales</u>	<u>Total ISO-NE Spot</u>	<u>Avg Sale</u>
	<u>Sales</u>	<u>from Generation</u>	<u>from Bilateral</u>	<u>Sales</u>	
	<u>MWh</u>	<u>MWh</u>	<u>MWh</u>	<u>\$000</u>	<u>\$/MWh</u>
Jan	5,869	727	5,142	485	82.65
Feb	5,362	702	4,660	269	50.16
Mar	17,083	2,809	14,274	1,130	66.13
Apr	4,385	0	4,385	326	74.27
May	42,582	1,221	41,361	3,414	80.16
Jun	6,850	406	6,444	416	60.67
Jul	2,938	17	2,920	210	71.44
Aug	11,837	932	10,905	676	57.15
Sep	2,941	184	2,757	167	56.94
Oct	2,789	106	2,683	130	46.67
Nov	17,455	4,129	13,325	845	48.43
<u>Dec</u>	<u>24,503</u>	<u>7,598</u>	<u>16,905</u>	<u>1,017</u>	<u>41.49</u>
Totals	144,593	18,831	125,762	9,084	62.83

Public Service Company of New Hampshire  
Docket No. DE 09-091

Data Request STAFF-01  
Dated: 06/15/2009  
Q-STAFF-024  
Page 1 of 2

**Witness:** Richard C. Labrecque  
**Request from:** New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, RCL-5. Please explain the approximate 3000 MW increase in ISO-NE capacity resources from January to March and again from September to October.

**Response:**

See the attached table for a break-out of the various capacity resource categories reported by ISO-NE that contribute to the totals provided in RCL-5. As shown, the increase from January to March is primarily from an increase in qualified imports from neighboring control areas (Hydro-Quebec, New Brunswick and New York) and higher Hydro-Quebec interconnection credits. The increase from September to October is primarily related to the transition from summer seasonal capability ratings to winter seasonal capability ratings.

<b>2008</b>	Total ISO-NE Capacity Resources (MW)	Generation	Load Response	ODR (Other Demand Response)	Imports Contracts	Capacity Credits (NYMPA & HQ)
Jan	35,846	32,222	1,897	328	1,285	115
Feb	35,925	32,246	1,898	381	1,285	116
Mar	38,212	32,320	1,968	380	2,487	1,057
Apr	38,125	32,329	1,941	309	2,487	1,060
May	37,088	31,581	1,979	387	2,285	856
Jun	34,427	29,506	1,557	386	2,285	693
Jul	34,586	29,431	1,548	396	2,388	822
Aug	34,634	29,536	1,411	396	2,388	903
Sep	34,676	29,540	1,483	397	2,246	1,010
Oct	37,941	31,725	2,170	662	2,246	1,138
Nov	37,690	31,817	2,250	657	1,623	1,343
Dec	36,660	31,898	2,341	644	1,642	135
Totals	435,811	374,152	22,442	5,324	24,647	9,247
Mar minus Jan	2,365	98	71	53	1,202	942
Oct minus Sep	3,265	2,185	687	265	0	128

Public Service Company of New Hampshire  
Docket No. DE 09-091

Data Request STAFF-01  
Dated: 06/15/2009  
Q-STAFF-025  
Page 1 of 2

Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Reference Labrecque testimony, RCL-5. Please show and explain how the PSNH percent share for each month was calculated.

**Response:**

PSNH's share of the ISO-NE capacity obligation shown on Attachment RCL-5 is detailed on the attached table.

	(a)	(b)	(c)	(d)	(e)	(f)
	ISO-NE Coincident Peak (MW)	Date & Time of ISO-NE Peak	PSNH Energy Service Customer Coincident Peak	PSNH Share of ISO-NE Obligation (%)	Total ISO-NE Capacity Resources (MW)	PSNH Share of ISO-NE Obligation (MW)
<b>2008</b>						
Jan	28,038	Aug 2, 2006 3pm	1,715	6.12%	35,846	2,193
Feb	28,038	Aug 2, 2006 3pm	1,715	6.12%	35,925	2,197
Mar	28,038	Aug 2, 2006 3pm	1,705	6.08%	38,212	2,324
Apr	28,038	Aug 2, 2006 3pm	1,698	6.06%	38,125	2,309
May	28,038	Aug 2, 2006 3pm	1,703	6.07%	37,088	2,252
Jun	25,773	Aug 3, 2007 3pm	1,620	6.29%	34,427	2,164
Jul	25,773	Aug 3, 2007 3pm	1,633	6.34%	34,586	2,192
Aug	25,773	Aug 3, 2007 3pm	1,641	6.37%	34,634	2,205
Sep	25,773	Aug 3, 2007 3pm	1,633	6.34%	34,676	2,197
Oct	25,773	Aug 3, 2007 3pm	1,607	6.23%	37,941	2,366
Nov	25,773	Aug 3, 2007 3pm	1,570	6.09%	37,690	2,295
Dec	25,773	Aug 3, 2007 3pm	1,545	6.00%	36,660	2,198

Notes

- (a) the coincident ISO-NE peak demand from the prior power year (power years run from Jun 1 thru May 31)
- (b) the time of the ISO-NE peak during the prior power year
- (c) this value is the portion of the coincident peak in column (a) attributable to customers served under Rate ES in the given month (e.g. Jan 2008)
- (d) = (c) / (a)
- (e) the total MWs of capacity resources that receive the transition period payment. See Q-STAFF-024.
- (f) = (d) \* (e)

Public Service Company of New Hampshire  
Docket No. DE 09-091

Data Request STAFF-01  
Dated: 06/15/2009  
Q-STAFF-026  
Page 1 of 1

Witness: Richard C. Labrecque  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Please supply a breakdown in terms of FTEs of the various functions at the NU Regulated Wholesale Power Contracts Department showing which positions PSNH is financially responsible for . If your response is different than in previous years , please show the difference(s) and explain the reason(s) for the change(s).

**Response:**

The number of FTEs assigned to PSNH support functions is unchanged from 2007. The total FTEs in the department has increased by two (2).

	<u>Total FTEs</u>	<u>PSNH</u>	<u>CL&amp;P &amp; WMECo</u>
Bidding & Scheduling	2.00	1.75	0.25
Resource Planning / Analysis	4.00	2.00	2.00
Energy & Capacity Purchasing	2.00	0.50	1.50
Standard Offer & Default Service			
Procurement	3.00	0.00	3.00
Contract Administration	3.00	0.00	3.00
Administrative Support	1.00	0.25	0.75
<u>Management</u>	<u>1.00</u>	<u>0.25</u>	<u>0.75</u>
Total	16.00	4.75	11.25

Witness: William H. Smagula  
Request from: New Hampshire Public Utilities Commission Staff

**Question:**

Reference Stipulated Settlement Agreement in Docket DE 08-066. For the eight recommendations listed on pages 4 through 5: Please describe the actions taken by PSNH to fulfill its commitment to implement recommendations 1 through 7. For recommendation 8, please describe the reviews, etc. performed by PSNH to better understand the protection issues involved.

**Response:**

The following describes actions taken to date by PSNH to initiate and implement the recommendations in Docket DE 08-066.

*1. PSNH should review the foreign matter exclusion procedure and modify it to include a check for foreign materials at the end of each shift as well as the current end of job inspection. He further recommends that when a unit is opened for maintenance, the senior crew person be required to sign off that all foreign materials have been removed prior to closing the unit.*

PSNH Generation station management has reviewed its foreign matter exclusion (FME) practices at all of its fossil stations. Based on investigation and review of specific incidents at Merrimack Station a revised FME procedure has been written. This procedure has gone through a number of revisions and reviews and is undergoing final approvals. This FME procedure will be provided to the other stations as the key reference for developing an FME policy as appropriate for local applicability and enhancements. The equipment tagging procedure has been reviewed with all personnel which requires the the equipment is ready for operation, including checking for any foreign material, prior to signing off the tags by the responsible maintenance person.

*2. PSNH should evaluate the use of a roving practices and procedure person during an outage to ensure that practices, procedures, and safety requirements are being followed per PSNH instructions. This practice should be implemented at all plants and is applicable for all outages.*

PSNH Generation has reviewed the use of a roving practices and procedures person for use during an outage. With the number and variety of tasks associated with practices, procedures and safety requirements, it was determined that these responsibilities could and should be distributed among key outage personnel including the maintenance manager, maintenance supervisors, working foreman, and contractor liaisons. After a lengthy review, we have concluded that delegating these functions to a specific person or persons inappropriately shifts this responsibility from the subject matter experts who also are fully accountable for these functions. Our preferred approach has been, and continues to be, to re-emphasize these duties throughout these groups. The entire work force also reviews safety and associated practices and procedures prior to the start of any job using the STAR program. The STAR program is a recently instituted program geared to cause the workers performing each maintenance job to fully evaluate all aspects of the work before initiating the work.

*3. PSNH should evaluate original equipment that does not have an inspection schedule and determine if and when such a schedule should be established. He recommended that PSNH should also evaluate equipment that does currently have an established inspection schedule and determine if that schedule should change with the aging of components. These recommendations apply to all major units.*

PSNH Generation leadership and station managers conducted a work session to review this topic. The long and broad experience of this group provided the best knowledge of the units' equipment and inspections. A review was made by system as well as by the equipment in the plants. From that review, some enhancements were emphasized to further improve plant reliability. A few examples are: broader boiler NDE programs/vendors, and flow assisted erosion of critical piping systems.

*4. PSNH should not rely exclusively on aerial patrols for inspections of lines in rights-of-way and that all lines in a right-of-way be inspected from the ground.*

As part of the REP request included in PSNH's recently filed rate case, a proposal has been made to fund patrolling of distribution lines in ROW on a yearly cycle utilizing a combination of aerial and ground methods.

*5. PSNH should consider a) moving check valves that show a propensity for sticking so that those valves may be unstuck without disturbing other systems and b) exercise care in the placement of check valves. Mr. Cannata further recommended that PSNH conduct an informal survey to identify other areas that exhibit the potential for similar problems.*

PSNH Generation leadership and station managers conducted a work session to review this topic. The long and broad experience of this group provided the best knowledge of the units' check valve locations and potential operational risks for them sticking. A review of check valves and their placement in critical systems identified key systems, as well as related work practices, which should be reviewed. (i.e. the turbine extraction non-return valves and lube oil system check valves). The survey found only 2 check valves hung up and one check valve was replaced as a result of the review.

*6. An outage occurred at Schiller Station when the wrong switch was activated by an operator. In the main control panel the switches are located in one configuration while the remote control panel located at the combustion turbine the switches are in an opposite or different configuration. Mr. Cannata recommended that PSNH identify potential problems with switching locations at its generating stations where there are two systems with different configurations, thereby preventing similar operator errors in the future.*

PSNH Generation leadership and station managers conducted a work session to review this topic. The long and broad experience of this group provided the best knowledge of the units' equipment and operational configuration. A review was done on appropriate controls which have multiple or redundant locations. The group determined that no systemic problems exist. However, a further review of labeling will be made to insure clear and observable markings exist at remote (outside the control room) redundant controls. Examples of such systems are: combustion turbines, hi-yards and motor-control-centers.

*7. PSNH should check the lightning protection in the area of the Canaan hydro unit to assure that its lightning protection practices will not result in lightning damage to the unit.*

PSNH has reviewed the lightning protection in the area of the Canaan hydro and confirmed that the lightning protection in the area is in accordance with PSNH's distribution engineering guidelines. The area, specifically the lightning protection equipment, was also visually inspected. All the equipment was found in tact and installed properly.