

ORIGINAL	
Case No.	DE 10-188
Panel No.	#5
Witness	Panel 1
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ATTACHMENT D

**Public Service Company of New
Hampshire
Docket No. DE 10-188**

Data Request STAFF-02

Dated: 09/22/2010

Q-STAFF-027

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Witness: Thomas R. Belair
Request from: New Hampshire Public Utilities Commission Staff

Question:

Follow-up to Staff 1-38, Energy Star Homes program. Please provide a reconciliation of the proposed lifetime kWh savings in 2009, actual achieved savings in 2009 and proposed savings in 2011, showing the side-by-side build-up of actual and proposed lifetime kWh values on a measure-by measure basis. For purposes of this response, please use the final fourth quarter report covering the period January – December 2009.

Response:

Please see attached document.

(PSNH Response)

PSNH Energy Star Homes Program

Measure	Quantity			Annual Savings per Unit (kWh)			Measure Life			In-Service Rate	Total Lifetime Savings (kWh)		
	2009 Plan	2009 Actual	2011 Plan	2009 Plan	2009 Actual	2011 Plan	2009 Plan	2009 Actual	2011 Plan	2009 & 2011	2009 Plan	2009 Actual	2011 Plan
Oil Heated Homes	52.1	5.0	18.9	40.0	2,837.0	519.8	25	25	25	100.00%	52,123	354,624	245,562
Natural Gas Heated Homes	121.6	194.0	207.9	40.0	1,289.5	481.5	25	25	25	100.00%	121,620	6,254,270	2,501,896
Liquid Propane Heated Homes	173.7	84.0	132.3	40.0	1,289.5	506.0	25	25	25	100.00%	173,743	2,708,035	1,673,190
Electric Baseboard Heated Home	0.0	93.0	18.9		1,289.5	3,077.0	25	25	25	100.00%	0	2,998,181	1,453,498
ASHP Heated Home			0.0			1,600.0				100.00%	0	0	0
ES Thermostats			283.4							100.00%	0	0	0
ES Room AC	0.0		0.0	37.0		16.2			9	100.00%	0	0	0
ES Clothes Washer	52.1	60.0	56.7	118.7	118.7	223.0	14	14	11	100.00%	86,596	99,683	139,067
ES Dishwasher	121.6	139.0	226.8	43.1	43.1	33.0	12	12	10	100.00%	62,902	71,891	74,828
ES Refrigerator	139.0	159.0	302.3	84.9	84.9	107.0	13	13	12	100.00%	153,336	175,406	388,192
ES Light Fixture	1,042	1,190	1,134	105.9	105.9	105.9	20	20	20	100.00%	2,207,034	2,519,404	2,400,265
ES CFL Lights	3,475	3,967	3,779	50.6	50.6	50.6	8	8	5	80.30%	1,130,187	1,290,255	768,257

Planning Assumptions

1. Per prior Q-Staff-038 Response:

a. The lower electric kWh savings are in large part due to a change in the planned measure life for lighting and appliances.

Those measure life changes contributing to this reduction are:

- > CFL reduced from 8 to 5 years.
- > Refrigerator reduced from 13 to 12 years.
- > Clothes Washer reduced from 14 to 11 years.
- > Dishwasher reduced from 12 to 10 years.

b. Also, in the 2009 program year, PSNH had a larger number of electrically heated homes participate in the Energy Star Homes program. Since 24% of the homes were electrically heated, this increased the amount of kWh savings realized in 2009. This quantity of electrically heated homes in 2009 was higher than normal, and the 2011 plan includes 5% electrically heated homes.

c. Going into 2011, there is a major milestone that will be encountered. Energy Star Homes Version 3.0 will begin to phase out the existing Energy Star Homes program and all of the rules and requirements will be changing. These changes are implemented by the EPA to ensure the program undergoes continuous improvement. The reality of introducing Version 3.0 is that builders will have a more difficult time meeting the new EPA version 3.0 requirements. Additionally more testing and consulting work will be required by the nationally recognized HERs raters that perform Energy Star Homes certifications. Therefore it is also expected that contractor service fees will increase.

d. In summary, lower measure lives and a smaller number of planned electrically heated homes have resulted in a lower kWh savings estimate. Increases in administration associated with the changes to the Energy Star Homes program are expected to increase the cost of each home rated in this program.