

1 **Appendix A**

2 **Educational and Professional Background**

3 **James J. Cunningham, Jr.**

4 I am employed by the New Hampshire Public Utilities Commission
5 (Commission) as a Utility Analyst. My business address is 21 S. Fruit Street,
6 Suite 10, Concord New Hampshire, 03301.

7 I am a graduate of Bentley University, Waltham, Massachusetts, and I hold a
8 Bachelor of Science-Accounting Degree. Prior to joining the Commission I was
9 employed by the General Electric Company (GE). While at GE, I graduated from
10 the Corporate Financial Management Training Program and held assignments in
11 General Accounting, Government Accounting & Contracts and Financial
12 Analysis.

13 In 1988, I joined the staff of the NHPUC. I have provided expert testimony
14 pertaining to depreciation studies, actuarial studies for pension and retirement
15 benefits, energy efficiency programs and other topics pertaining to NH electric,
16 natural gas, water, and steam utilities. In 1995, I completed the NARUC Annual
17 Regulatory Studies Program at Michigan State University, sponsored by the
18 National Association of Regulatory Utility Commissioners. In 1998, I completed
19 the Depreciation Studies Program, sponsored by the Society of Depreciation
20 Professionals, Washington, D.C. I am a member of the Society of Depreciation
21 Professionals (SDP). In 2008, I was promoted to my current position of Utility
22 Analyst IV.

23 **Educational and Professional Background**

1 **Al-Azad Iqbal**

2 I am employed by the New Hampshire Public Utilities Commission (PUC) as a
3 Utility Analyst. My business address is 21 S. Fruit Street, Suite 10, Concord New
4 Hampshire, 03301.

5 I received my Bachelor degree in Architecture (B. Arch). Later, I received my
6 Masters (MS) in Environmental Management and another Masters in City and
7 Regional Planning (MCRP). I was a Doctoral Candidate at the City and Regional
8 Planning Department at Ohio State University. After joining the PUC in 2007, I
9 participated in several utility related training courses including Advanced
10 Regulatory Studies at Institute of Public Utilities, Michigan State University.

11 Prior to joining the PUC, I was involved in teaching and research activities in
12 different academic and research organizations. Most of my research work was
13 related to quantitative analysis of regional and environmental issues.

HPwES Program
Savings Share vs. Surcharge Share
Group 1 and Group 2 Ratepayers

Energy Usage				
Electric Customer (Group 1)	Natural Gas Customer (Group 1)	Other Fuel Customers (Group 2)	Total	
8%	18%	74%	100%	

Household Usage of Heating Fuels in NH (2)

Non-Heating est:	No. Of Households (1) (2)	Est. Annual kWh usage per Household (3)	Total Annual kWh
	48,007	108,016	444,067
	7,200	7,200	7,200
	345,651,840	777,716,640	3,197,279,520
			4,320,648,000

Heating est:

Est. Annual kWh usage / household (4)	Extended kWh per Household	No. Of Households (1) (2)	Est. Annual kWh usage / household (4)
48,007	108,016	444,067	600,090
21,155	21,155	21,155	21,155
1,015,592,316	2,285,082,711	9,394,228,923	12,694,903,950

Total Energy Usage

1,361,244,156	3,062,799,351	12,591,508,443	17,015,551,950
1,361,244,156	3,062,799,351	3,197,279,520	7,621,323,027.00

Total Usage Subject to EE Charge

18%	40%	42%	100%
58%	42%	42%	100%

Percentage Surcharge Share

18%	40%	42%	100%
58%	42%	42%	100%

Summary of Surcharge Share By Group

5%	95%	100%
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Summary of Savings based on PSNH Filing (p. 63)

(1) Source: US Census Bureau, 2009 NH housing units
<http://quickfacts.census.gov/qfd/states/33000.html>

(2) DOE Energy Efficiency & Renewables, Energy Consumption in NH homes.
<http://adps1.eere.energy.gov/states/residential.cfm/state=NH>

(3) Based on and estimated usage of 600 kWh per month

(4) Source: 2010 Annual Reports for EnergyNorth and Northern Table 41

	Energy North	Northern	Average
MMBTU	5,409,513	1,540,778	
# Customers	74,162	22,136	
MMBTU/Cust	73	70	
Therms (x 10)	729	696	722
Factor to convert from Therms to kWh			29.3
			21,155

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

Data Request STAFF-04

**Dated: 02/24/2012
Q-STAFF-002
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**Witness: Thomas R. Belair
Request from: New Hampshire Public Utilities Commission Staff**

Question:

Reference Gelineau/Palma testimony, p. 10, footnote 3. Please identify the electric savings from each source described (cooling load savings due to weatherization, electric savings in non-electric heating systems etc.) in the context of HPwES program for 2012? Please provide details (calculations, and data sources etc.).

Response:

PSNH and UES neither captures, reports or claims electric savings associated with cooling load savings due to weatherization or electric savings from non-electric heating systems.

(Joint Utility Response)

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

Data Request STAFF-04

**Dated: 02/24/2012
Q-STAFF-005
Page 1 of 1**

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

Question:

Reference Gelineau/Palma testimony, p. 20, lines 7-14. Please provide annualized potential electric savings of each of these seven elements. Also provide the electric savings that would be achieved by the 2012 HPwES program.

Response:

The New Hampshire Climate Action Plan contains CO₂ emission reductions forecasts for 2012, 2025 and 2050 associated with the goal of retrofitting 30,000 homes annually to reduce their net energy consumption by 60%. It does not contain the annualized potential electric savings associated with the CO₂ emission reductions; therefore, PSNH and UES are unable to provide the annualized electric savings of each of the seven program elements.

PSNH's total planned annual electric kwh savings for the 2012 HPwES program is 225,999 kwh.
UES's total planned annual electric kwh savings for the 2012 HPwES program is 85,008 kwh.

(Joint Utility Response)