

### ENERGY PROBE INTERROGATORY #3

#### INTERROGATORY

Ref: Exhibit B, Page 8, Appendix A, Page 3, Common Assumptions Table

Preamble:

Energy Probe would like to understand the sensitivity and effect of changed Common Assumptions of environmental temperatures for mains water input supply for the Water Heating DSM Measures listed below.

#### Water Heating

Tankless Water Heater Condensing EF 0.91 Replacement  
High Efficiency Gas Storage Water Heaters EF 0.8 New

Please provide in Excel and PDF formats

- A Table/Tab with the Common Assumption(s).
- The Algorithm calculation(s) for the Measures.
- Estimates for the average mean water supply temperatures for Union North and Union South and for Enbridge Niagara, Central and Eastern Areas.
- Profile/statistics of units installed under Union and Enbridge Programs for last three years.
- Weighted Savings with Common Assumptions.
- Weighted Savings for revised input assumptions.
- Statistical analysis of differences between Common and Zone/Area input assumptions.

#### RESPONSE

- a) Common Assumptions used for these Residential Measures can be found in Table 4 in the substantiation documents.

Witnesses: D. Bullock  
L. Kulperger

For Residential Condensing Tankless Gas Water Heater, refer to Exhibit B, Tab 1, Schedule 6, p.109. For Residential High Efficiency Gas Storage Water Heater refer to Exhibit B, Tab 1, Schedule 6, p.191.

- b) The algorithm used to calculate the gross annual natural gas m<sup>3</sup> savings is shown in detail in the substantiation documents. For Residential Condensing Tankless Gas Water Heater, refer to Exhibit B, Tab 1, Schedule 6, pp. 108 to109. For Residential High Efficiency Gas Storage Water Heater, refer to Exhibit B, Tab 1, Schedule 6, p.190 to191.
- c) The average mean water supply temperature assumptions are based on the average of findings in two studies as noted in the Common Assumptions Table , Exhibit B, Tab 1, Schedule 4, p.2. Inlet water temperature was not elevated as a priority for the development of the Technical Reference Manual (“TRM”). The Utilities do not have substantiated estimates for areas other than the 9.39 degree value included in the Common Assumptions Table, Exhibit B, Tab 1, Schedule 4 p.2.
- d) Neither Union nor Enbridge have included Residential Condensing Tankless Gas Water Heater or Residential High Efficiency Gas Storage Water Heater in any offerings in the past three years.
- e) through g) Neither Union nor Enbridge have installs for these measures and, consequently, can provide no such analysis.

Witnesses: D. Bullock  
L. Kulperger