

**MONTANA-DAKOTA UTILITIES CO.
SOUTH DAKOTA PUBLIC UTILITIES COMMISSION
2ND SET OF DATA REQUESTS
ISSUED FEBRUARY 16, 2017
DOCKET NO. NG17-002**

Question 2.2:

As captured in the benefit/cost modeling, please explain how the non-gas fuel units per participant of 732 (kWh?) for furnaces and 2.1 (kWh?) for thermostats was determined. Please include any calculations used in the determination.

Response:

The non-gas fuel savings for furnaces is derived using the formula from the Minnesota Technical Reference Manual Version No. 1.2 and provided as Response No. 2.2, Attachment A:

Total kWh savings (blower motor) = Heating savings + Cooling savings + Shoulder Season savings

Heating savings = 418 kWh

Cooling savings = 263 kWh

Shoulder Season savings = 51 kWh

Total kWh savings = 732

The 2.1 kWh savings for non-gas savings for thermostats should have been zero. The correction of this calculation does not change any of the ratios.