

**From:** Cohen, Daniel  
**Sent:** Thursday, April 23, 2015 1:50 PM  
**To:** 'Miller, William'  
**Cc:** Cymbalsky, John; [rmurphy@aga.org](mailto:rmurphy@aga.org); Schryver, David; Exparte Communications  
**Subject:** RE: AGA/APGA Questions re Furnace NOPR, EERE-2014-BT-STD-0031

Bud, Answers to your questions are attached.

Dan

**From:** Miller, William [<mailto:wmiller@McCarter.com>]  
**Sent:** Monday, April 20, 2015 9:18 AM  
**To:** Cohen, Daniel  
**Cc:** Cymbalsky, John; [rmurphy@aga.org](mailto:rmurphy@aga.org); Schryver, David; Exparte Communications  
**Subject:** RE: AGA/APGA Questions re Furnace NOPR, EERE-2014-BT-STD-0031

Dan: AGA/APGA have some questions regarding the use of AHRI Shipment Data in the LCC spreadsheet, to which we would appreciate prompt responses. Please explain the detailed methodology used in the TSD and LCC spreadsheet to determine the fractions of each efficiency level in the baseline (no rule) scenario. This includes the approach to:

- Incorporating the 1994 through 2009 state-level AHRI condensing and non-condensing furnace shipment data available only to LBNL as confidential information,
- Bridging the current gap in state-level shipment data starting in 2010,
- Determining the fractions of each condensing furnace efficiency level (90, 92, 95, and 98% AFUE),
- Dis-aggregating state-level shipment data into new vs. replacement and residential vs. commercial,
- Adjusting projected 2021 state level shipment data that was based on historical data trends (e.g., 5% non-condensing furnace limit if projected condensing furnace shipments exceeds 95% of the state shipments)

DOE's prompt attention to this matter is appreciated; if you have any questions, please contact me. Kindly see that this communication is posted in the subject proceeding. Thanks - Bud



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