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From: McLellan, Jay [mailto:[jay.mclellan@homeauto.com](mailto:jay.mclellan@homeauto.com)]

Sent: Friday, April 30, 2010 4:10 PM

To: Frazee, Douglas

Cc: McLellan, Jay; Arbour, Ryan; Gumina, Ron

Subject: FW: Energy Star

Doug,

Below are some comments on the Residential Climate Control. Thanks for the opportunity to comment.

Regards,

Jay McLellan

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1 - The requirement is to display "back up heat" when Aux Heat is on. This should be open for interpretation and a few more options such as "EM Heat", "Aux Heat" or "Gas Fuel" should be allowed.

3 - The requirement is to have time set without user input, even when not connected to an EMS. Is installer consider a user? If so there should be a modification to allow the user/installer to set the time once to save hardware costs. The requirement implies a radio receiver for time, which is a very weak signal in the interior spaces where a thermostat goes. Could a reasonable substitute be a clock chip, such as Seiko, with capacitor back up good for 2 weeks?

5 - Can AWAY set points be integrated in with a HOLD function: for example, HOLD AWAY, HOLD VACATION, HOLD OFF etc. This way, a user could press the HOLD key and select from a variety of hold functions.

6 - Batteries. We frown on primary disposable batteries for environmental reasons. They should be rechargeable or not used in this application.

7 - This topic is about performance evaluation by a panel. This sounds prohibitively expensive for a smaller manufacturer. Picking a panel, hiring them, running the test, compiling, etc. - an accredited lab is going to charge \$200K for this.

8 - See item 5. Please allow the "AWAY" function to be part of the HOLD function. This could be the first option in the hold menu, and thus a single button push.

9 - "Button push" needs to be changed to button push or knob/dial turn - turning a knob up or down is very intuitive for thermostats. We do not think there is a need to show "Short Term Hold", as this is evident when HOLD function (AWAY, VACATION, LONG TERM, etc.) is not in use.

10 - We have had utilities choose their own colors for tiers, we have seen 2, 3 and 4 tier programs. Suggest Green, Yellow, Orange and Red for Lo, Mid, Hi, Critical.

11 - Font sizes: 4.75mm minimum font is too big to put in menu items, messages, other info on display. Suggest 3 mm as minimum size for secondary items.

14 - Humidity sensors - 3% accuracy is very difficult for humidity. Suggest 5% typical, 10% max.

15 - "Adaptive Recovery" will only work when the schedule is local, not when it is changed remotely, i.e by an EMS. It can also be confusing to consumers and is probably subject to IP rights. Suggest that Adaptive be optional.

16 - How about 0.5W except when being adjusted by user, or actively displaying a message, fault indication or utility rate change, where the backlight will be on. Backlight shall time out after some period of time.

22 - Remote reporting need to be 0.1F resolution, but the display requirement is only 1F resolution. I would suggest changing this requirement to 1 degree F resolution. Zigbee HA also would not satisfy this requirement without an implementation of MSP.