

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
AIR AND RADIATION

Date August 15, 2014

Dear Pool Pump Brand Owner or Other Interested Party:

The U.S. Environmental Protection Agency (EPA) welcomes your input on the attached Draft 2 ENERGY STAR Connected Pool Pump Criteria. EPA and the Department of Energy (DOE) also welcome your input on the attached draft ENERGY STAR Test Method to validate Demand Response capabilities. Stakeholders are encouraged to submit comments on both of these documents to EPA no later than September 19, 2014. Once finalized, these criteria and test method can be applied at the option of pool pump partners wishing to have their pool pump identified as having connected functionality on the ENERGY STAR qualified product list.

Since the release of Draft 1 criteria, in January 2014, EPA has had numerous productive conversations with stakeholders, as a group and individually, allowing the Agency to more fully refine the proposed criteria. The comments received in response to Draft 1 are posted to the ENERGY STAR website at www.energystar.gov/revisedspecs

The Draft 2 connected criteria include the following key changes from the Draft 1:

1. Block Diagram: In response to comments, EPA has made some minor edits by adding additional external applications and minor editorial clarifications to Section 4.2, Figure 1.
2. Communications: EPA has clarified; 1. products that enable Open Standards connectivity only outside of the consumer's premises may comply, and 2. products that include a modular communication port that complies with Section 4.3 need not ship with a compatible module.
3. Energy Consumption Reporting: EPA has revised this section to be more explicit indicating that estimated reporting and/or reporting in units of real-time power is acceptable.
4. Operational Status: Based on stakeholder feedback, EPA has revised this section to allow reporting of motor speed and/or flow; as some pumps do not estimate Rate of Flow.
5. Peak Period Avoidance: EPA has clarified the requirement that pump retain settings through power outages of *24-hours or less*.
6. Demand Response: EPA has; 1. added language and a table to clarify the latency period for various pump types, and 2. added a requirement that the Type 3 response not exceed scheduled pumping; replacing the requirement to not exceed daily energy consumption as the latter was deemed to be overly complex, highly variable and difficult to test.

These and other important discussion topics are highlighted in note boxes located throughout the draft criteria.

Test Method

The U.S. Department of Energy (DOE) has developed a Draft 1 ENERGY STAR Test Method to validate Demand Response capabilities. Stakeholders are encouraged to submit comments on the draft test method.

ENERGY STAR Stakeholder Web-based Meeting

Stakeholders are invited to participate in a web-based stakeholder meeting on **October 1, 2014 at 11:30 AM Eastern Time** to discuss the Draft 2 Connected Criteria and the Draft test method. To register for the webinar, please click on the following [link](#). EPA encourages manufacturers, utilities, and other

stakeholders to participate in order to gain a well rounded representation of the concerns and interests of all parties involved in the connected market place.

Submittal of Written Comments

Comments on the Draft 2 Connected Functionality Criteria and Test Method should be submitted via email by **September 19, 2014** to poolpumps@energystar.gov. All comments received will be posted to the ENERGY STAR Product Development Web site, unless the submitter specifically requests that his or her comments remain confidential.

The exchange of ideas and information between EPA, DOE, industry, and other interested parties is critical to the success of ENERGY STAR. Please feel free to contact me at (202) 343-9046 and kent.christopher@epa.gov or Douglas Frazee, ICF International, at (443) 333-926 and douglas.frazee@icfi.com with any questions or comment on the Draft specification. For questions relating to the test method, please contact Bryan Berringer at (202) 586-0371 or bryan.berringer@ee.doe.gov.

Sincerely,

A handwritten signature in blue ink that reads "Christopher Kent". The signature is written in a cursive, flowing style.

Christopher Kent,
Product Manager for Pool Pump Equipment
ENERGY STAR Program