

**CALIFORNIA ENERGY COMMISSION**

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**March 3, 2014**

**Pool Pumps and Motors Standards Development Data Request  
Docket No. 12-AAER-2F**

This data request is a follow-up to the California Energy Commission's January 15, 2014 webinar requesting additional information to develop standards for its appliance efficiency rulemaking. The purpose of this data request is to offer more specific guidance for stakeholders to provide feedback on proposals for pool pump and motor standards.

Please submit information in response to this data request to the Energy Commission's docket, referencing the above docket number. If you have additional questions, please contact Tuan Ngo, at (916) 651-2908, or Tuan.Ngo@energy.ca.gov.

1. Test Procedure

The Energy Commission is interested in updating its test procedures for (1) pool pump motors and (2) pool pump and motor combinations to improve repeatability of results and reliability in measuring the products' relative efficiency. Specifically, staff recognizes flaws in the current test procedure's lack of standardized piping and dynamic head. Staff is interested in updating the test procedure to use a standard size piping (such as 1<sup>1/2</sup> inches inside diameter) in an adjustable apparatus to specific dynamic head. The output of an updated test procedure would be the energy factor of a pump at full and at half speed.

The Energy Commission requests stakeholders provide in comment:

- a. A proposed updated test procedure that improves the current test procedure as described above, and a discussion of the technical merit and feasibility of the new test procedure.
- b. If the improvements described above are not feasible, please provide suggestions for an alternative test procedure that more reliably identifies the efficiency of (1) pool pump motors and (2) pool pump and motor combinations.
- c. Any suggested dynamic head testing points for single, double, multiple, and variable speed pumps and motors.

2. Additional Efficiency Data from Updated Test Procedure

The Energy Commission is interested in collecting additional and updated efficiency data (post-2010) for pool pump motors and pool pump and motor combinations.

Specifically, the Energy Commission seeks data from any updated test procedure described above. The Energy Commission is also interested in data that characterizes the efficiencies of commercial pool pump motors and pool pump and motor combinations.

### 3. Proposed Efficiency Standards

The Energy Commission seeks input on the efficiency standards and reporting requirements of a proposed pool pump standards, including:

- a. New or updated performance efficiency standards recommended for motors, along with supporting documentation and feasibility of standards. Please address how the suggested standards affect different size motors.
- b. Discussion of the feasibility of performance standards such as energy factor measured at a specific head for pumps and motors versus prescriptive approaches.
- c. Any suggested energy factors and the corresponding dynamic head as standards for single, double, multiple, and variable speed pumps and motors.
- d. Any suggested changes to the current reporting requirements (Title 20, Section 1606, Table X (G)), to ensure compliance with the standards suggested above in response to Data Request 3. a, b, and c.

### 4. Market for Rebuilt or Refurbished Pool Pump Motors

Pool pump motors are frequently rebuilt or refurbished and are cost-competitive with newer and more efficient motors. The Energy Commission is therefore interested in any data related to the volume and extent that these motors are used in the current market. The Energy Commission is interested in any suggested approaches to ensure the rebuilt or refurbished motors are efficient, and whether representative local offices could certify them to meet suggested standards.