

Memorandum



Date: January 28, 2019

To: Cassie Cuaresma, SCE

CC: Henry Liu, PG&E; Ed Reynoso, SDG&E; Cassie Cuaresma, SCE; Chan U Paek, SoCalGas

From: Peter Biermayer- Utilities Engineer, Industrial/ Agricultural Programs and Portfolio Forecasting Section, Energy Efficiency Branch, Energy Division, CPUC

Subject: Non-standard Disposition for Energy Efficiency residential variable speed pool pump workpaper SCE17WP001 Rev 1

Summary

This disposition approves energy efficiency residential variable speed pool pump workpaper **SCE17WP001 Rev 1 and provides guidance for future work on accelerated replacement measure application type**. The workpaper is applicable to claim savings starting 1/1/2018 with an expiration date of 12/31/2019.

Discussion

The revised workpaper is approved for normal replacement application type with a two-speed motor baseline and a high efficiency variable speed motor. However, if the Program Administrators (PAs) choose to offer accelerated replacement under the measure type with a single speed motor baseline and a high efficiency variable speed motor, then they are required to collect specific preponderance of evidence (PoE) information to prove that the baseline pump was single-speed and operational.¹ The Commission requires PAs offering an accelerated replacement measure to enforce the PoE data collection. The revised workpaper includes the verification and documentation of the existing equipment parameters as follows:

- a) Manufacturer
- b) Model Number
- c) Rated Horsepower

¹ Resolution E-4818 provides current guidance on PoE requirements. This guidance shall be used until it is updated by the Commission.

- d) Motor type (1-speed or 2-speed)
- e) Confirmation that existing pump is still operational by collecting filtration settings (start/end schedule/times); volumetric flowrate (gpm); and wattage (Watts)

Further Guidance

To continue offering incentives for an accelerated replacement measure into Program Year 2020, PAs must demonstrate that the program is documenting credible evidence of an operable single speed motor existing condition for AR claims.

SCE and any other PA using the AR measure are instructed to present a summary analysis of the PoE collection practice through October 1, 2018 and then to conduct a second analysis for the period of January 1 through June 30, 2019. The first analysis should be completed by February 1, 2019, and the second by October 1, 2019. The Ex Ante WP Team will require access to all the primary data. If the first review cycle reveals uncertainty in the existing condition, the PAs have will have an opportunity to remediate the weakness and demonstrate credible documentation in the second period. However, Program Year 2020 will suspend accelerated replacement measure as an offering without clear demonstration of the existing conditions.

Finally, we note that the single family ex post evaluation identified a significant demand reduction², while the ex ante estimate does not and that the multifamily demand profile indicates pumps run predominantly mid-day.³ We expect the new peak demand definitions, which become effective in 2020, could have a significant impact on the reported demand savings for pool pumps. We direct PAs to plan accordingly.

² "Impact Evaluation of 2013-2014 SDG&E Residential VSD Pool Pump Program" Prepared by DNV-GL 4/16/2016

³ "Metering and Measuring of Multi-Family Pool Pumps Phase 2" Prepared by ADM 4/25/2016