

State of California

Memorandum



Date: 4/01/2023

To: Anders Danryd, Southern California Gas Company (SCG); Andres Marquez, SCG; Cassie Rauss, Southern California Edison (SCE); Ryan Cho, SCE; Jay Bhatka, SCE; Andres Fergadiotti, SCE; Danielle Dragon, Pacific Gas and Electric (PG&E); Henry Liu PG&E; Ed Reynoso, San Diego Gas and Electric (SDG&E); John Zwick (SDG&E); Nancy Goddard, PacifiCorp; Kenneth Liljestrom (SDG&E)

CC:

From: Peter Biermayer P.E., Utilities Engineer, EE Planning & Forecasting Section, Energy Division, CPUC

Subject: Disposition Approving SEER Rated AC and HP HVAC Equipment, Residential – Measure Package SWHC049-03

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## 1. Discussion and Direction

The California Public Utilities Commission (CPUC) approves the statewide measure package for SEER Rated AC and HP HVAC Equipment, Residential – SWHC049-03. This is a revision to the existing measure package SWHC049-02. The measure package was updated mid-cycle because of a change in the federal minimum efficiency standard and a change in the efficiency metric used by the federal standard. The measure package was also updated in accordance with Resolution E-5152 in addition to updates for the base case and measure case metrics to SEER2 rated efficiency values. The federal efficiency standard change became effective on January 1, 2023. SWHC049-03 will become effective retroactively on January 1, 2023 to align with the federal standards. Measure package SWHC049-02 will be set to expire on December 31, 2022.

## 2. Measure Package Summary

The measure updates were in response to Resolution E-5152 and to update the base case and measure case values to SEER2 rated equipment per the federal code. Additional key updates to SWHC049-03 are listed below.

Key updates include:

- Adopted DEER energy impacts and updated calculations to EnergyPlus v5 models and CZ2022 weather data.
- Added data collection requirements in upstream delivery channels.
- Adopted a SEER-to-SEER2 crosswalk for SEER2-rated units to align with the updated federal code effective on January 1, 2023.
- Updated material and labor costs.

### **3. Critical Review Issues**

Reviewers confirmed that all updates were completed in accordance with CPUC policy and guidance. The Ex Ante Review team had minor comments for San Diego Gas & Electric (SDG&E) requesting minor text edits and other clarifying comments. In addition, the Ex Ante Review Team talked through the SEER-to-SEER2 crosswalk values with SDG&E and the measure developers to ensure the federal standard has been accurately updated.