

State of California



## Memorandum

Date: August 13, 2019

To: Cassie Cuaresma, SCE

CC: Henry Liu, PGE; Ed Reynoso, SDGE;

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

Subject: Disposition Approving Southern California Edison's TLED Lamp Replacement Workpaper, SWLG0009-01

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### 1. Direction Summary

The CPUC approves Southern California Edison's TLED lamp replacement workpaper SWLG0009-01. This workpaper is a Phase 1 submission for 2020 and the workpaper will become effective on 01/01/2020 with an expiration date of 12/31/2020.

### 2. Workpaper Summary

This workpaper supports measures that replace 4' T8 fluorescent lamps with linear tubular LED lamps (TLEDs) that have an efficacy of 145 lm/W or higher. This is an accelerated replacement measure only (no normal replacement options) with a baseline of fluorescent lamps with efficacies of approximately 90 lm/W. Because this is an accelerated replacement measure and a relamping measure, Title 24 is not triggered and code baseline does not apply. Furthermore, the 100 lm/W baseline required by resolution E-4952 does not apply as this requirement is for hardwire luminaires rather than lamps. The energy savings forecasting (a.k.a. ex ante) team's review found operating hours and interactive effects for all impacts were taken from the most applicable and updated DEER data and that all relevant cost and energy savings calculations were accurate. Preponderance of evidence supports the assumptions of the fluorescent lamp baseline as the measure technology requires fluorescent ballasts to operate.

The workpaper is in conformance with previous direction, including E4952 (October 2018) and with the draft DEER Update Resolution E-5009.