SCE DR CASE
December 2018

DR16.08 Codes and Standards Enhancement Initiative, DR Changes to Title 24 Part 6

UPDATE

Current version of 2019 Title 24 Part 6 changes went into effect January 1, 2020.

This round of Code and Standard Enhancements to Title 24 Part 6 focuses on improving clarity and aligning the requirements with current industry stands for Auto-Demand Response technology. The changes impacting DR are positive and are intended to ease compliance and improve participation. Of the many updates that have been made this review will highlight the new section **110.12** ***Mandatory Requirements for Demand Management***. And the revised and new definitions of common industry language in section 100.1.

NEW AND REVISED DEFINITIONS IN SECTION 100.1

OpenADR 2.0a is the OpenADR Alliance document titled, "OpenADR 2.0 Profile Specification A Profile," 2011.
OpenADR 2.0b is the OpenADR Alliance document titled, "OpenADR 2.0 Profile Specification B Profile," 2015.
Virtual End Node: (VEN) is an interface with a demand responsive control system that accepts signals transmitted through OpenADR, consistent with the specifications in OpenADR 2.0a or 2.0b.

Energy Management Control System, *is an automated control system that regulates the energy consumption of a building by controlling the operation of energy consuming systems, and is capable of monitoring loads and adjusting operations in order to optimize energy usage and respond to demand response signals."*

TECHNOLOGY

Revised Definition in Section 100.1; "**Demand Responsive Control** *is an automatic control that is capable of receiving and automatically responding to a demand response signal."*

Section 110.12 consolidates all requirements for demand responsive controls and provides clarity for the type of communication equipment and protocol requirements.

1. All demand responsive controls shall be either:

A. Certified OpenADR 2.0a or OpenADR 2.0b Virtual End Node (VEN), as specified under Clause 11, Conformance, in the applicable OpenADR 2.0 Specification; or

B. Certified by the manufacturer as being capable of responding to a demand response signal from a certified OpenADR 2.0b Virtual End Node by automatically implementing the control functions requested by the Virtual End Node for the equipment it controls.

Requirements 2 and 3 allow designers to specify multiple products that are capable of meeting requirements.

2. All demand responsive controls shall be capable of communicating using one or more of the following: Wi-Fi, ZigBee, BACnet, Ethernet, or hard-wiring.

3. Demand responsive controls may incorporate and use additional protocols beyond those specified in Sections 110.12(a)1 and 2.

4. When communications are disabled or unavailable, all demand responsive controls shall continue to perform all other control functions provided by the control.

Requirement 5 separates DR from Thermostat Specs.

5. *Demand responsive control thermostats shall comply with Reference Joint Appendix 5 (JA5), Technical Specifications For Occupant Controlled Smart Thermostats.*