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Submitted On: 1/12/2022
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LPM Equipment Tested During DCP Development

Additional submitted attachment is included below.



Pacific Gas and
Electric Company®



A Sempra Energy utility®



SOUTHERN CALIFORNIA
EDISON®

Energy for What's Ahead®

January 12, 2022

Soheila Pasha
Appliance Office
California Energy Commission
1516 Ninth Street, MS-25
Sacramento, CA 95814

Re: List of equipment tested by California Investor-Owned Utility Codes and Standards Enhancement Team in support of development of the Data Collection Procedure for the California Energy Commission's Low Power Mode Roadmap

Docket Number: 17-AAEER-12

Dear Dr. Pasha:

This letter comprises the comments of the Pacific Gas and Electric Company (PG&E), San Diego Gas and Electric (SDG&E), and Southern California Edison (SCE) in response to the efforts of the California Energy Commission (Energy Commission) to develop a Data Collection Procedure (DCP) for the Low Power Mode (LPM) Roadmap.

The Codes and Standards Enhancement (CASE) initiative supports the CEC's efforts to update California's Appliance Efficiency Regulations (Title 20). The California Investor-Owned Utilities sponsored this effort (herein referred to as the Statewide CASE Team). The program goal is to prepare and submit proposals that will result in cost-effective enhancements to improve the energy and water efficiency of various products sold in California.

As noted in our submission to CEC on May 14, 2021, we tested a variety of product types in support of development of the DCP¹. Several stakeholders requested a list of equipment tested. To preserve the confidentiality of products tested, we have produced an anonymized list of products identified by their functions. This list also includes additional products that were tested after the May 2021 proposal. Please see attached.

In conclusion, we would like to reiterate our support to CEC's on LPM Roadmap and the development of a DCP. We thank CEC for the opportunity to be involved in this process.

¹ <https://efiling.energy.ca.gov/GetDocument.aspx?tn=237807&DocumentContentId=71046>

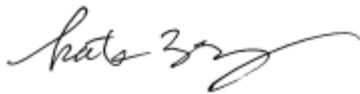
Sincerely,



Patrick Eilert
Manager, Codes & Standards
Pacific Gas and Electric Company



Karen Klepack
Senior Manager, Building Electrification and Codes
& Standards
Southern California Edison



Kate Zeng
ETP/C&S/ZNE Manager
Customer Programs
San Diego Gas & Electric Company

CA IOU LPM List of Equipment Tested, January 12, 2022

Product Category	Primary Function(s)	Secondary Function(s)	Input power
SNE - proprietary router	Passing IP traffic	Wireless networking (IEEE 802.15.4) Wired networking (10/100 Mbps Ethernet) Voice interface	AC mains via plug
Smart plug	Power delivery	Wireless networking (IEEE 802.15.4) Indicator light On/off switch	AC mains via plug
Connected lighting	Lighting	Wireless networking (IEEE 802.15.4)	AC mains via plug
Smart speaker	Playing audio content	Wireless networking (IEEE 802.11 b/g/n/ac, Bluetooth) Voice interface Indicator light	AC mains via plug
Smart speaker	Playing audio content	Wireless networking (IEEE 802.11 a/b/g/n, Bluetooth) Voice interface Indicator light	AC mains via plug
Connected doorbell	Doorbell	Wireless networking (IEEE 802.11 a/b/g/n/ac, Bluetooth, IEEE 802.15.4) Ambient light sensing Voice interface Face recognition IR sensing	Hardwired
Security camera	Home security	Wireless networking (IEEE 802.11 a/b/g/n/ac, Bluetooth, IEEE 802.15.4) Indicator light Motion sensing Ambient light sensing Ambient sound sensing Voice interface Face recognition IR sensing	AC mains via plug
Game console	Video gaming	Wireless networking (IEEE 802.11 a/b/g/n/ac, Bluetooth) Wired networking (10/100/1000 Mbps Ethernet) HDMI Indicator light	AC mains via plug
SNE - proprietary router	Passing IP traffic	Wireless networking (IEEE 802.15.4) Wired networking (10/100 Mbps Ethernet) Indicator light	AC mains via plug
SNE - Wi-Fi mesh	Passing IP traffic	Wireless networking (IEEE 802.11ac, IEEE 802.15.4, Z-Wave) Wired networking (10/100/1000 Mbps Ethernet) Indicator light	AC mains via plug
SNE - proprietary router	Passing IP traffic	Wireless networking (IEEE 802.15.4) Wired networking (10/100 Mbps Ethernet) Indicator light	AC mains via plug
SNE - router	Passing IP traffic	Wireless networking (IEEE 802.11ac) Wired networking (10/100/1000 Mbps Ethernet) USB Indicator light	AC mains via plug
SNE - Wi-Fi mesh	Passing IP traffic	Wireless networking (IEEE 802.11 a/b/g/n/ac) Wired networking (10/100/1000 Mbps Ethernet) USB Indicator light	AC mains via plug

CA IOU LPM List of Equipment Tested, January 12, 2022

SNE - Wi-Fi mesh	Passing IP traffic	Wireless networking (IEEE 802.11 a/b/g/n/ac, Bluetooth, IEEE 802.15.4) Wired networking (10/100/1000 Mbps Ethernet) Indicator light	AC mains via plug
SNE - access point	Passing IP traffic	Wireless networking (IEEE 802.11 n/ac) Wired networking (10/100/1000 Mbps Ethernet) Indicator light	AC mains via plug
SNE - range extender	Passing IP traffic	Wireless networking (IEEE 802.11 b/g/n/ac) Wired networking (10/100 Mbps Ethernet) Indicator light	AC mains via plug
VoIP phone	Carrying out phone calls	Wired networking (10/100/1000 Mbps Ethernet) Indicator light Display	AC mains via plug
SNE - switch	Passing IP traffic	Wired networking (10/100/1000 Mbps Ethernet) Indicator light	PoE
SNE - access point	Passing IP traffic	Wireless networking (IEEE 802.11 a/b/g/n/ac/ab) Wired networking (10/100/1000 Mbps Ethernet) Indicator light	PoE
Computer speakers	Playing audio content	Indicator light	USB
SNE - switch	Passing IP traffic	Wired networking (10/100/1000 Mbps Ethernet) Indicator light	PoE
Thermostat	HVAC control	Indicator light Display Temperature sensing	Hardwired
Thermostat	HVAC control	Indicator light Display Temperature sensing	Hardwired
Thermostat	HVAC control	Wireless networking (IEEE 802.11 b/g/n) Indicator light Display Voice interface Temperature sensing	Hardwired
SNE - router	Passing IP traffic	Wired networking (10/100 Mbps Ethernet) Indicator light	AC mains via plug
SNE - router	Passing IP traffic	Wired networking (10/100 Mbps Ethernet) Indicator light	AC mains via plug
SNE - firewall	Passing IP traffic	Wired networking (10/100/1000 Mbps Ethernet) Indicator light	AC mains via plug
SNE - firewall	Passing IP traffic	Wired networking (10/100/1000 Mbps Ethernet) USB Indicator light	AC mains via plug
SNE - firewall	Passing IP traffic	Wired networking (10/100 Mbps Ethernet) USB Indicator light	AC mains via plug
Connected light switch	Lighting control	Indicator light	Hardwired
Connected light switch	Lighting control	Wireless networking (IEEE 802.11 b/g/n) Indicator light Voice interface	Hardwired
Doorbell chime	Doorbell chime	None	Hardwired
Security camera	Video surveillance	Wireless networking (IEEE 802.11 a/b/g/n, Bluetooth) Indicator light Motion & occupancy sensing Ambient light sensing Ambient sound sensing IR sensing Voice interface	AC mains via plug

CA IOU LPM List of Equipment Tested, January 12, 2022

Home security kit	Home security	Wireless networking (IEEE 802.11 a/b/g/n, Bluetooth, IEEE 802.15.4, Z-Wave) Wired networking (10/100 Mbps Ethernet) Indicator light Motion sensing Voice interface	AC mains via plug
Home security kit	Home security	Wireless networking (IEEE 802.11 b/g/n, Z-Wave) Indicator light Motion sensing Ambient light sensing Ambient sound sensing Hinge sensing Temperature sensing Humidity sensing	AC mains via plug
Home security kit	Home security	Wireless networking (IEEE 802.11 b/g/n) Motion sensing Ambient light sensing Ambient sound sensing IR sensing	AC mains via plug
Smart plug	Power delivery	Wireless networking (Bluetooth) Indicator light	AC mains via plug
Home security kit	Home security	Wireless networking (Z-Wave) Indicator light Display Motion sensing	AC mains via plug
Home security kit	Home security	Wireless networking (Z-Wave) Wired networking (10/100 Mbps Ethernet) USB Indicator light Motion sensing IR sensing	AC mains via plug
Connected lighting	Lighting	Wireless networking (IEEE 802.15.4)	AC mains via plug
Connected lighting	Lighting	Wireless networking (IEEE 802.11n)	AC mains via plug
Smart plug	Power delivery	Wireless networking (IEEE 802.11b) Indicator light	AC mains via plug
Connected light switch	Lighting control	Wireless networking (IEEE 802.11n)	Hardwired
Home security kit	Home security	Wireless networking (IEEE 802.11 b/g/n) Indicator light Motion sensing Hinge sensing IR sensing	AC mains via plug