

Southern California Edison
R.18-10-007 – SB 901

DATA REQUEST SET O S A - S C E - 0 0 1

To: OSA
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Received Date: 2/23/2018

Response Date: 2/27/2019

Question 1: 1. Regarding your distribution infrastructure and your transmission infrastructure that is located within the boundaries of the Commission’s High Fire-Threat District Map, what are the maximum wind speeds that these existing facilities have been designed to withstand? Please provide total circuit miles and maximum wind speed data for facilities in each of the wildfire threat designation areas (Zone 1, Tier 2, and Tier 3). How many circuit miles located within each of the three designated areas are currently designed to withstand wind gusts greater than 100 mph?

Response to Question 1:

Table 1 below provides a breakout of the various design wind pressures and equivalent speeds currently used for SCE’s distribution and subtransmission infrastructure. The maximum wind speed is based on a 24 lbs. wind pressure that equates to 97 mph. For bulk transmission infrastructure, SCE’s maximum wind speeds have been based on either GO 95 wind speeds indicated below, project-specific weather studies, or ASCE 74 methods which include an 85 mph wind speed for the State of California. Generally speaking, SCE does not design any of its facilities for wind gusts greater than 100 mph.

Table 1 – Distribution Design Wind Speeds

Description	Wind Pressure (psf)	Wind Speed (mph)
SCE High Winds	24	97
	18	84
	12	68
GO 95 Light	8	56
GO 95 Heavy*	6	48

*Note: GO 95 heavy applies an additional 1/2" of radial ice to conductor diameter.

Separately, SCE does not track circuit miles by wind speed. SCE could use structure count by design wind speed as a proxy and correlate ratios of structure counts to circuit miles and could provide this information if OSA would find that information useful and requests it.