

*Southern California Edison*  
*2023-WMPs – 2023-WMPs*

**DATA REQUEST SET Cal Advocates - SCE - 2023 WMP - 09**

**To: Cal Advocates**  
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**Response Date: 4/25/2023**

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**Question 04:**

Please explain SCE's selection criteria for the installation of the following equipment on underground circuits:

- a) SCADA UG switches
- b) Junction boxes
- c) Load break elbows

**Response to Question 04:**

*a. SCADA UG switches*

SCE's term for SCADA UG Switches is Remote Controlled Switches (RCS). RCS devices can be connected to all sizes of SCE's primary voltage cables through 200-amp and 600-amp connections. SCE selects load-break gang operated switch designs for overhead, pad-mounted, and submersible applications. The RCS placement is typically selected to sectionalize the circuit load depending on the circuit loading. In general, large circuits can be sectionalized into quarters, while smaller circuits would be sectionalized into halves. RCS devices are also applied to normally open circuit tie positions to alternate source of electric supply for electric service restoration should the normal circuit be interrupted.

*b. Junction boxes*

SCE junction boxes are applied in pad-mounted applications to enclose junction bars. Junction boxes are not applied in vaults. Junction bars are usually applied in 3-way and 4-way configurations to allow cable to serve multiple locations.

*c. Load break elbows*

Load break elbows are applied to smaller SCE cable, typically 1/0 aluminum conductor with crosslinked polyethylene insulation for new cable. Load break elbows are SCEs standard termination for equipment with less than 200-amp capacity. The elbows are also applied for load break junction bar applications.