

Southern California Edison
2022-WMPs – 2022 Wildfire Mitigation Plan Updates

DATA REQUEST SET Cal Advocates - SCE - 2022 WMP - 15

To: Cal Advocates
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Response Date: 7/14/2022

Question 02:

If any of the parameters identified in question 1 depend on the normal operating parameters for its protective devices (i.e., device settings such as the minimum to trip during ordinary weather), please describe how SCE determines those normal operating parameters.

Response to Question 02:

SCE's phase and ground Fast Curve pickup values are set to a multiple greater than the normal operating minimum trip setpoints. The normal distribution circuit operating minimum trip values are described below.

Phase minimum trip:

The minimum trip will typically be set to 150% of maximum projected downstream load of the protective device.

1. For 12kV and 16kV distribution circuits, the typical pickup setting for the substation protection device is 720 amps, or 130% of maximum load.

Ground minimum trip:

The minimum trip will typically be set to about 20-30% of the phase minimum trip.

1. Typical pickup setting is 180 amps for 12kV and 16kV distribution circuits, which allows the ground function to coordinate, in 4-wire systems, with the largest standard fuse used on branch line fusing and underground fuse dips.
2. SCE validates at the issuance of the setting that the unbalance current does not exceed the ground minimum trip setting.