

Southern California Edison
MESA PTC A.15-03-003

DATA REQUEST SET A1503003 ED-SCE-05

To: ENERGY DIVISION
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Title: Power System Planner
Dated: 09/18/2015

Question 03.b:

Page 2-4 of the PEA states that the N-1-1 contingency involving an outage of the Eco-Miguel 500-kV Transmission Line followed by an outage of the Ocotillo-Suncrest 500-kV Transmission Line (“500-kV N-1-1 contingency”) would result in voltage collapse. In response to Data Request #2, Follow Up 01 Q.04-01(C), SCE states that this 500-kV N-1-1 contingency would result in “voltage issues . . . located at substations spread throughout the Western LA Basin.” In response to Data Request #3, in SCE’s Attachment A, SCE states that the 500-kV N-1-1 contingency would cause “low voltages [to] occur.”

However, in a study of the 500-kV N-1-1 contingency with SCE-provided data, the CPUC was unable to substantiate SCE’s claim of a voltage collapse or voltage issues located at multiple substations. Only the Serrano Substation, with a voltage of 0.897 pu, was noted as experiencing a voltage below that allowed by CAISO Transmission Planning Standards, Table 1, in the event of a 500-kV N-1-1 contingency. Refer to the study in Attachment 3.

Provide the following information about the voltage collapse and/or voltage issues identified by SCE following the 500-kV N-1-1 contingency:

- B. Substantiate the claim that the 500-kV N-1-1 contingency would result in “voltage issues . . . located at substations spread throughout the Western LA Basin.” Specify which substation(s) would experience low voltage. Do not refer to the CAISO 2013–14 Transmission Plan in the answer to this question. The CPUC has reviewed and is aware of the CAISO plan and requests information other than, or in addition to, the information provided in that plan.

Response to Question 03.b:

Due to the time necessary to perform a thorough review of the data provided by the Commission in connection with the study in Attachment 3, SCE will need additional time to provide a complete answer to Question 3b. SCE intends to provide a complete response to this question on or before 10/9.