

Southern California Edison
WODUP A.13-10-020

DATA REQUEST SET A.13-10-020 WODUP ED-SCE-13

To: ENERGY DIVISION
Prepared by: Scott Lacy, P.E.
Title: Project Engineer
Dated: 02/12/2015

Question ALT-21a:

ALT-21 Follow-up to SCE response on ALT-18a.

The conductor evaluation table provided with SCE's response for ALT-18a indicates that the single-conductor 1033.5 ACSR on the existing double-circuit towers has a clearance violation rate of 43% in the two segments evaluated by SCE.

21a. To understand the extent to which the existing line is experiencing clearance violations under present day normal or emergency operating conditions, please clarify if the emergency rating for the existing line is at the 275 °F value shown in this table.

Response to Question ALT-21a:

The present maximum operational rating for the various existing transmission lines supported by the double-circuit towers within the WOD corridor are different from the 275 F value shown in the table attached with SCE's previous response to Data Request Question ALT-18.a.

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Question ALT-21b:

ALT-21 Follow-up to SCE response on ALT-18a.

The conductor evaluation table provided with SCE's response for ALT-18a indicates that the single-conductor 1033.5 ACSR on the existing double-circuit towers has a clearance violation rate of 43% in the two segments evaluated by SCE.

21b. Please identify the maximum normal and emergency operating temperatures that are actually in place for these two circuits today.

Response to Question ALT-21b:

The recommended operating temperature for the various existing transmission lines supported by the double-circuit towers within the WOD corridor, for both normal and emergency conditions, is 201 F. This matches the operating temperature that is reflected on the California Independent System Operator's Transmission Registry.

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Question ALT-21c:

ALT-21 Follow-up to SCE response on ALT-18a.

The conductor evaluation table provided with SCE's response for ALT-18a indicates that the single-conductor 1033.5 ACSR on the existing double-circuit towers has a clearance violation rate of 43% in the two segments evaluated by SCE.

21c. If the emergency rating is not 275 °F, please provide an update on the percentage of clearance violations for the existing single-conductor 1033.5 ACSR at its actual maximum normal and emergency operating temperature.

Response to Question ALT-21c:

Based on the recommended operating temperature of 201 F identified in SCE's response to Data Request Question No. ALT-21.b, the percentage of clearance violations for the existing single-conductor 1033.5 kcmil ACSR is approximately 1.2% or two spans.

Please note that SCE has previously identified and reported these two existing clearance infractions as part of its response to the 2010 NERC Alert. The identified infractions were determined based on as-built wire sags and may vary from design documents due to variances in anticipated creep, construction tolerances, etc.