

Southern California Edison
WODUP A.13-10-020

DATA REQUEST SET A.13-10-020 WODUP ED-SCE-04

To: ENERGY DIVISION
Prepared by: Scott Lacy, P.E.
Title: Project Engineer
Dated: 04/24/2014

Question V-2 a:

During the team site visit, SCE stated that the new lattice structures would be a bit more massive (in addition to taller) than the existing lattice structures in order to carry the heavier conductors. Furthermore, SCE said that the appropriate model for those structures would be the angle structures of the existing lattice line being replaced. However, that is not what is shown in some of the PEA simulations. Figures 4.1-28 and 4.1-29 (PEA pages 4.1-97 and 4.1-99) include angle structures for the existing lines. The visual simulations for these KOPs show structures that, while taller, are clearly less substantial than the existing angle structures, particularly at the base.

a. Would the proposed tangent structures be similar to the angle structures of the existing lines to be replaced? So that we are completely clear as to the design of the proposed structures, please provide either the specific location of an existing tower in the WOD corridor where we can see the proposed structure type, or provide a photo of an existing line with structures that are of the same design as the proposed WOD structures (and the location of the tower in the photo).

Response to Question V-2 a:

For the vast majority of the Project, the new double-circuit lattice steel structures will not be noticeably more "massive" than the existing double-circuit lattice structures. The only exception will be for the four towers being designed to support the extremely long spans across the Whitewater Creek area. While it is true that angle structures require a bit more heft than tangent structures, the differential appearance is minimal at a reasonable distance away, especially to the layperson.

Upon closer review in preparation to answer this question, SCE recognized that there is an error reflected in PEA Figures 4.1-28 and 4.1-29 such that the angle towers shown in the "Existing Conditions" above were improperly shown as tangent towers in the "Visual Simulations" below. This change mainly affects the characteristics of the crossarms and attached hardware, not so much the heft of the tower body and legs.

Similar views of tangent towers, both existing and future, are properly reflected in PEA Figures 4.1-31 and 4.1-33.