

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

DATA REQUEST SET A.15-03-003 ED-SCE-01

To: ENERGY DIVISION
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Question Q.18:

Coloring of LSTs

The document states in footnote 2: "Coloring of LST elements prior to assembly will hamper or impede this continuous electric path because it creates an insulator between the elements. Color application to LST structures would need to be applied following assembly of the individual pieces." Clarify if this statement applies to the pre-assembly application of commercially available darkening stains for galvanized steel for LSTs.

Response to Question Q.18:

The use of any stain or powder coating applied to an exterior surface that may be used to modify the color of steel for LSTs prior to tower assembly would result in the same electrical impedance concern as does the use of paint.

SCE has had some success on recent projects with implementing a modified galvanizing process to result in a darker shading of the tower steel from the fabricators, but that process is not precise (meaning the shading of the resultant pieces may not be as uniform) and also does not allow for any other colors to be implemented. This process, however, does maintain the required electrical continuity between steel members after assembly that allows for proper tower grounding to be achieved.