

*Southern California Edison*  
**Presidential Substation Project A.08-12-023**

**DATA REQUEST SET Presidential ED-03 (Part 3)**

**To:** CPUC

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**Title:** Field Engineering Project Manager

**Dated:** 05/19/2009

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**Question 04:**

**Project Description**

Provide typical duct bank block diagram. Include information about conduits and getaways. Describe the termination of the two getaways described as being routed 125 feet south of the substation. Would they connect with existing distribution lines, would a second vault be required? How does the conduit exit the trench? Also, the PEA states that routes have not been determined at this time; however if new distribution routes would be required preliminary routes must be provided for CEQA analysis.

**Response to Question 04:**

Please refer to the attached page CD 120 from SCE's Underground Construction Standards (UGS) to see the conduit bank requirements for typical ductbank block diagram.

The two underground getaways are not described as being routed approximately 125 feet to the south of the substation. Instead, as was stated in Data Request Response #1 Question #1, the two underground getaways are being routed approximately 125 feet to the south within the substation boundaries to exit to the south of the substation. The two 5" conduits will be terminated at the east side of the 16 kV power cable trench in accordance with SCE's UGS CD 134 (attached). At the new proposed pole (with down guys and anchors) to be set inside the substation, each conduit will be terminated in accordance with SCE's UGS CD 161 (attached). Please note that a 4/0 bare copper neutral conductor will be run from the 16 kV power cable trench to the distribution riser pole within the substation. Inside each 5" conduit, a run of three single conductor 1000 kcmil jacketed Cross-linked Polyethylene cable will be pulled between the riser pole and 16 kV power cable trench and terminated in the appropriate position on the 16 kV switchrack.

The length of the two 5" conduits is approximately 125' all within the Presidential Substation property. The discussion below assume that the posed question relates to how SCE plans to connect the two underground getaways to the existing 16 kV overhead distribution conductor. These two underground getaways would rise up (in risers) on the new distribution pole set within Presidential Substation and be terminated. A new span of 16 kV distribution wires (7) would be installed from the new distribution pole set within the substation to the existing pole located south of the substation (to be replaced with a new pole

in order to obtain proper clearance and guying capability). At this point, the two new distribution getaways (circuits) would connect to existing 16 kV distribution circuitry and two new circuits would be formed; one heading into Simi Valley and the other heading into Thousand Oaks. Based on this preliminary design, a second vault would not be required for these two getaways, but a new distribution pole proposed to be located within Presidential Substation would be required.