

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

Question 03:

Project Description

Provide a written description of construction activities associated with underground duct bank, conduit and getaway installation (trenching). Make sure to include information on depth, length and width of trench, anticipated cubic yardage of material that would be removed and amount that may require disposal, and amount of any imported backfill. Would conduit always be installed within a duct bank? What is the installation process for installing, conduit or cable (i.e. is conductor pulled through conduit after installation or installed at the same time) from the switchrack to the vault and beyond where required? Update construction equipment table/personnel/emissions and required staff as necessary.

Response to Question 03:

The proposed civil construction work required to install the approximately 8700' of 6-5" conduits in a concrete encased ductbank would typically involve using a backhoe with a 24" bucket to excavate an approximate 24" trench approximately 60" deep. Shields or trench shoring are then temporarily installed for safety to brace the walls of the trench. Six 5" conduits would then be installed using spacers to create a ductbank consisting of two columns of three stacked 5" conduits apiece. The temporary shoring would be removed. The conduits would then be encased in concrete with a minimum encasement of 3" on all sides. After the concrete encasement has hardened, the trench would be backfilled with 1.5 sack and sand slurry (which is a mix of sand and water with 1.5 bags of cement added with no aggregate) in accordance with the minimum permit requirements as required by the local jurisdiction (e.g. the city) in which the trench is located. Later, the job would be finished as the street would be repaved in accordance with the city's permit requirements.

Conduit would always be installed in the ductbank. After the civil work of installing the ductbank, vaults, and ventpipes has been completed, SCE's contract or SCE's cable crews would arrive at a later date to pull in three single conductor 1000 kcmil jacketed Aluminum Cross-linked Polyethylene (CLP) cables per circuit run in one of the 5" conduits in the ductbank. To accomplish this, a Router (cable pulling truck) would set up at every other vault to pull cable both ways. At opposite ends of every other vault, the Cable Carousels would be set up to feed cable both ways. Other distribution crews typically would install the vault grounds, rack the cables, install any switches, any transformers and any other necessary

equipment, and make the appropriate cable splices and terminations. Switching would be performed to put the new equipment into service. Lane closures and traffic control permits are often required for cable installations by local, county and state agencies.

With respect to the request to "update construction equipment table/personnel/emissions and required staff as necessary", please note that SCE will be submitting a revised PEA Table 3.3 - Construction Equipment Use Estimations to the CPUC in mid-July 2009, which will reflect the construction and personnel information requested in this question and other similar data request questions asking for updated equipment, personnel and construction information.

Please note, however, that with respect to emissions, the Ventura County Air Quality Assessment Guidelines considers construction-related ozone precursors (reactive organic carbon and NOx) emissions as temporary, and they are not counted towards the significance thresholds. Likewise, the Ventura County Air Pollution Control District (VCAPCD) recommends minimizing fugitive dust during construction rather than quantifying particulate emissions. Therefore, SCE would implement the VCAPCD-recommended fugitive dust control and ozone precursor control measures as part of its Proposed Project (please see Chapter 3, Project Description for more information). These measures are listed in SCE's PEA in Table 4.3-2, VCAPCD Fugitive Dust and Ozone Precursor Control Measures.