

PUBLIC UTILITIES COMMISSION

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September 19, 2012

VIA MAIL AND EMAIL

Christine McLeod
Project Manager - Regulatory Affairs
Regulatory Policy & Affairs Dept.
Southern California Edison
2244 Walnut Grove Avenue, Quad 3D, 388L
Rosemead, CA 91770

SUBJECT: Data Request #10 for the Southern California Edison Presidential Substation Project

Dear Ms. McLeod:

As the California Public Utilities Commission (CPUC) proceeds with our environmental review for Southern California Edison (SCE)'s Presidential Substation Project (Proposed Project), we have identified additional information required in order to complete the Final EIR for the Proposed Project. Please provide the information requested below (Data Request #10) by **September 28, 2012**. Please submit your response in hardcopy and electronic format to me and also directly to our environmental consultant, ESA, at the physical and e-mail addresses noted below. If you have any questions please direct them to me as soon as possible.

Sincerely,

Juralynne Mosley
CPUC CEQA Project Manager
Energy Division

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ESA
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Data Request #10 Presidential Substation Project

Southern California Edison (SCE) in response to data inquiries has noted that the implementation of a System Alternative A (per its most recent iteration presented by the CPUC) would require SCE to take other actions external to the ENA. To more fully understand and assess the impacts of the proposed System Alternative A (see the proposed description of this alternative below), the following data is requested. In replying to the questions please assume that Alternative A is implemented and the rolling of load into the ENA would be limited by the capacities of the ENA substations (Royal, Thousand Oaks, and Potrero) following the completion of all identified upgrades. The CPUC would not impose operational load rolling restrictions under this alternative.

1. What additional upgrades would be required outside the ENA at the following substations:
 - a. Newbury, (Note: the SCE 2/6/12 rebuttal from Alicia Lopez, indicated that 11.2MVA could be added to the substation although there may be potential issues with circuit ties.) Please describe the nature of any problems associated with the circuit ties.
 - b. Oak Park, and (Note: the SCE 2/6/12 rebuttal from Alicia Lopez, indicated that an additional 28 MVA transformer and / or the two existing 14 MVA transformers could be replaced with 28 MVA units, again although there may be limitations with circuits and other infrastructure.) Please describe the nature of any problems associated with the circuits or other infrastructure. Would one be correct in assuming the 28 MVA transformers would carry a PLL rating of approximately 36.4 MVA?
 - c. Santa Susana. (Note: no indications were given in the SCE 2/6/12 rebuttal from Alicia Lopez, as to whether or not upgrades are possible at this substation.)
2. What additional external capacity (Top rating and PLL) would be achieved as a result of these substation upgrades outside the ENA?
3. Describe how these combined upgrades would affect the operational flexibility of the SCE system within and external to the ENA. What are likely operational constraints and limitations, etc.?
4. Would new 66 kV line(s) be required to serve any of these substations? If additional 66 kV line(s) is/are needed, what would the conceptual beginning, endpoint, and route(s) be?
5. In addition to those described in items 1-4 above, what other upgrades external the ENA may be needed under an implementation of System Alternative A scenario?

System Alternative A – Upgrade Existing Substations Using Standard SCE Equipment and Transformers

Description

Increase capacity at two of the existing ENA Substations: Upgrade Potrero Substation and Royal Substation by replacing the existing transformers and 16 kV station capacitor banks with higher capacity equipment, and adding additional 16 kV circuits. The Thousand Oaks Substation is not capable of supporting an upgrade. The upgrades would consist of:

Potrero Substation Upgrades

- Replace two 22.4 MVA transformers with two 28 MVA transformers;
- The upgrade of two 3 MVAR 16 kV station capacitor banks to two 4.8 MVAR 16 kV station capacitor banks;
- Upgrade the existing transformer breakers and leads (work internal at the substation); and
- Install one new 16 kV circuit approximately 1-mile long.

Royal Substation

- Replace one 22.4 MVA transformer with a 28 MVA transformer;
- Replace and relocate two 16 kV capacitor banks (4.8 and 6.0 MVAR) with three new 4.8 MVAR 16 kV capacitor banks;
- Extend the 16 kV operating and transfer buses and rack; and
- Install two new 16 kV circuits approximately 6.5 miles long.