STATE OF CALIFORNIA JERRY BROWN, *Governor*

PUBLIC UTILITIES COMMISSION
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298

May 31, 2013 VIA MAIL AND EMAIL

Christine McLeod
Principal Advisor - Regulatory Affairs Dept.
Southern California Edison
8631 Rush Street, General Office 4 - G10Q (Ground Floor)
Rosemead, CA 91770

SUBJECT: Data Request #11 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 consider our next actions on the CEQA review for the Proposed Project. Please provide the information requested below (Data Request #11) by June 24, 2013. 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 #11
Presidential Substation Project

1. Provide the 2013-2022 DSP Peak Demand Forecast for the Electrical Needs Area including operational load rolling.

2. System Alternative A which was eliminated from consideration in the Draft and Final EIRs was comprised of the following actions:

> "Upgrade Potrero Substation and Royal Substation by replacing existing transformers and 16 kV station capacitor banks with higher capacity equipment, and adding additional 16 kV circuits. Thousand Oaks Substation is presently at full build-out and cannot accommodate additional transformers."

The FEIR described System Alternative A as follows:

> "Upgrades at Potrero Substation would include:
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> - The replacement of 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.
> - The installation of one new 16 kV circuit that would extend approximately 1 mile.
>
> Upgrades at Royal Substation would include:
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> - The replacement of one 22.4 MVA transformer with a 28 MVA transformer.
> - The replacement and relocation of two 16 kV capacitor banks (4.8 and 6.0 MVAR) with three new 4.8 MVAR 16 kV capacitor banks.
> - The extension of the 16 kV operating and transfer buses and rack.
> - The installation of two new 16 kV circuits that would extend approximately 6.5 miles in length."

Assuming the transformer replacements described in the System Alternative A are with units of matched impedance and other substation equipment such as breakers and switches etc. are upgraded/replaced as necessary the following substation PLL ratings should be achievable under System Alternative A:

- Royal 142.6 MVA
- Thousand Oaks 144.0 MVA
- Potrero 145.6 MVA
- Total ENA 432.2 MVA

Describe any technical/engineering constraints related to upgrading the three ENA substations as described and achieving the PLL ratings shown above. If PLL ratings would be reduced from the values presented above, describe the technical reasons for the reduction, and present the highest achievable PLL rating based on upgrading the Potrero and Royal substations.

3. Update previous SCE responses to Data Request Set Presidential ED-10 based on the 2013-2022 DSP Peak Demand Forecast (in place of the 2012-21 forecast) under System Alternative A assuming a Presidential Substation would not be built.

4. Where not addressed under Question #3, provide additional information based on SCE best engineering judgment regarding what physical changes would be required to implement System Alternative A, within the ENA and outside the ENA. For the ENA substations describe any additional changes that would be required at each substation beyond the transformer, circuit breaker, and switch rack upgrades already described in the EIR if any.