STATE OF CALIFORNIA THE RESOURCES AGENCY ARNOLD SCHWARZENEGGER, *Governor*

CALIFORNIA ENERGY COMMISSION
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December 2, 2009

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Greggory L. Wheatland
Ellison Schneider and Harris, L.L.P.
2600 Capitol Avenue, Suite 400
Sacramento, CA 95816-5931

Dear Mr. Wheatland,

LOS ESTEROS CRITICAL ENERGY FACILITY POWER PLANT PROJECT (03-AFC-2C): AMENDMENT #4 DATA REQUEST 1

Pursuant to Title 20, California Code of Regulations, section 1769, the California Energy Commission staff requests the information specified in the enclosed Data Requests. The information requested is necessary for Commission staff to more fully understand the project and assess whether the project will result in adverse impacts.

This set of Data Requests (#1-1) is being made in the areas of transmission system engineering. The Data Requests were developed as a result of staff's review of the Los Esteros Critical Energy Facility Power Plant Project Amendment Petition. Written responses to the enclosed Data Responses are due to the Energy Commission staff on or before February 5, 2010 or at such later date as may be mutually agreed.

If you are unable to provide the information requested, or object to providing the requested information, please notify me within 14 days of receipt of this request. Any objections to the Data Requests must contain the reasons for not providing the information and the grounds for any objections (see Title 20, California Code of Regulations, section 1769).

If you have any questions, please call me at (916) 654-4842, or E-mail me at Cmdavis@energy.state.ca.us.

Sincerely,

Chris Davis
Compliance Project Manager

Enclosure:
Data Requests

Los Esteros Critical Energy Facility (LECEF)
Amendment #4 for 03-AFC-2C
Data Requests

Technical Area: Transmission System Engineering
Authors: Sudath Arachchige
Technical Senior: Mark Hesters

BACKGROUND

The California Environmental Quality Act (CEQA) requires the identification and description of the "Direct and indirect significant effects of the project on the environment." The Application for Certification requires discussion of the "energy resource impacts which may result from the construction or operation of the power plant." For the identification of impacts on the transmission system resources and the indirect or downstream transmission impacts, staff relies on the System Impact and Facilities Studies to insure the interconnecting grid meets the California Independent System Operator (California ISO) reliability standards. The studies analyze the effect of the proposed project on the ability of the transmission network to meet reliability standards. When the studies determine that the project will cause a violation of reliability standards, the potential mitigation or upgrades required to bring the system into compliance are identified. The mitigation measures often include the construction of downstream transmission facilities. CEQA requires the analysis of any downstream facilities for potential indirect impacts of the proposed project. Without a complete California ISO GIPR Transition Cluster Window, Phase I Interconnection Study for Los Esteros Energy Facility (LECEF) Expansion project, staff is not able to fulfill the CEQA requirement to identify the indirect effects of the proposed project.

DATA REQUEST

Provide the complete Phase I Interconnect Study Report for the LECEF Expansion Project (dated July, 2009) including both the written report and all of the appendices. The Study should analyze the system impact with and without the project during peak and off-peak system conditions, which will demonstrate conformance or non-conformance with the utility reliability and planning criteria with the following provisions:

1. Identify major assumptions in the base cases including imports to the system, major generation and load changes in the system and queue generation.
2. Analyze system for N-0, important N-1 and critical N-2 contingency conditions and provide a list of criteria violations in a table showing the loadings before and after adding the new generation.

3. Analyze the PG&E system for Short Circuit currents with and without the LECEF Expansion Project at strategic buses for three-phase and single phase line to ground faults. Provide a summary of results in a table.
4. Analyze system for Transient Stability and Post-transient voltage conditions under critical N-1 and N-2 contingencies, and provide related plots, switching data and a list for voltage violations in the studies .Provide a list of contingencies evaluated for each study.
5. List mitigation measures considered (required) and those selected (optional-Data Requests will follow) for all criteria violations.
6. Provide electronic copies of *.sav and *.drw PSLF files.
7. Provide power flow diagrams (**MW, % loading & P. U. voltage**) for base cases with and without the project. Power flow diagrams must also be provided for all N-0, N-1 and N-2 studies where overloads or voltage violations appear.