

**PALEN SOLAR POWER PROJECT (09-AFC-7)
CEC STAFF DATA REQUEST 254**

Technical Area: Transmission System Engineering

Response Date: January 6, 2010

DR-TSE-254

Information Required:

Provide the complete Phase I Interconnect Study Report- Eastern Bulk System Group Network Analysis (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:

- a) Identify major assumptions in the base cases including imports to the system, major generation and load changes in the system and queue generation.
- b) Analyze system for N-O, 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.
- c) Analyze the SCE system for Short Circuit currents with and without the Palen Solar Power Plant at strategic buses for three-phase and single phase line to ground faults. Provide a summary of results in a table.
- d) 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.
- e) Provide a list of contingencies evaluated for each study.
- f) List mitigation measures considered (required) and those selected (optional-Data Requests will follow) for all criteria violations.
- g) Provide electronic copies of *.sav and *.drw PSLF files
- h) 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-O, N-1 and N-2 studies where overloads or voltage violations appear.

Response:

The requested information will be provided separately under confidential cover.