

## DOCKETED

<b>Docket Number:</b>	97-AFC-02C
<b>Project Title:</b>	Sutter Power Plant Application for Certification
<b>TN #:</b>	200005
<b>Document Title:</b>	CEC Formal Data Request to SEC
<b>Description:</b>	Request to SEC to supplement the environmental analysis in the Petition.
<b>Filer:</b>	Tiffani Winter
<b>Organization:</b>	Beverly Bastian
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	7/23/2013 10:36:40 AM
<b>Docketed Date:</b>	7/23/2013

**CALIFORNIA ENERGY COMMISSION**

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SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



July 22, 2013

Ms. Barbara McBride, Director, Environmental, Health & Safety  
Calpine Corporation  
4160 Dublin Boulevard  
Dublin, CA 94568

**RE: SUTTER ENERGY CENTER AMENDMENT (97-AFC-2C)  
FORMAL DATA REQUEST SET No. 1 (Nos. 1–6)**

Dear Ms. McBride:

California Energy Commission staff has reviewed the Petition to Amend (Petition) for the Sutter Energy Center and requires additional information to supplement the environmental analysis in the Petition, pursuant to Title 20, California Code of Regulations, section 1769(a)(1)(E). Energy Commission staff seeks the information specified in the enclosed data requests. The information requested is necessary to more fully understand the project, assess whether the project would result in significant environmental impacts, and assess potential mitigation measures.

This set of data requests (Nos. 1–6) is being made in the technical areas of Transmission System Engineering (Nos. 1–5) and Air Quality (No. 6). Staff requests that written responses to the enclosed data requests be provided on or before August 2, 2013.

If you are unable to provide the information requested, need additional time, or you object to providing the requested information, please send written notice to me within 20 days of receipt of this information request. The notification should contain the reasons for not providing the information and the grounds for any objections.

If you have any questions, please call me (916) 654-4840, or email me at [beverly.bastian@energy.ca.gov](mailto:beverly.bastian@energy.ca.gov).

Sincerely,

Beverly E. Bastian  
Compliance Project Manager  
Siting, Transmission, & Environmental Protection Division

Enclosure: Formal Data Request Set No. 1



**Sutter Energy Center (97-AFC-2C)  
Formal Data Request Set 1**

**Technical Area:** Transmission System Engineering  
**Authors:** Ajoy Guha, P. E., and Mark Hesters

**BACKGROUND**

On March 22, 2013, Calpine Construction Finance Company, L.P. (CCFC), filed with the Energy Commission this document: “Petition to Amend the License for the Sutter Energy Center, Yuba City, California” (Petition to Amend), requesting to change the Point of Interconnection (POI) of the Sutter Energy Center (SEC) from the existing Western Area Power Association grid to the California ISO grid at the PG&E Table Mountain-Tesla 500-kV line through a new PG&E 500/230-kV substation.

Staff has reviewed the SEC owner’s petition, but did not find a complete description of the transmission interconnection facilities, including the project switchyard, the generation tie line, and the interconnection to the existing transmission grid. Staff needs a complete description of these proposed facilities to analyze how the proposed modifications would affect the SEC’s continuing compliance with applicable laws, ordinances, regulations, and standards (LORS).

To obtain the information needed to complete its analysis of the changes proposed for the SEC by the CCFC, staff submits the following Data Requests regarding the new interconnection facilities.

**DATA REQUESTS**

1. Please provide a one-line electrical diagram of the proposed 500/230-kV substation to be constructed by PG&E adjacent to the existing PG&E Table Mountain-Tesla 500-kV overhead (OH) to connect to the new 500/230-kV transformer bank to be constructed by the applicant. The one-line diagram should show transmission outlets for connections to the 500-kV line and to the new 230-kV underground (UG) cable generator (gen-tie) line, along with the configuration of high- and low-side buses, breakers, and disconnect switches, and their respective sizes and/or ratings. Provide also the ratings of the 500/230-kV transformer bank in the diagram.
2. Please provide a physical layout drawing of the proposed PG&E 500/230-kV substation showing the fence lines, all major equipment, and the transmission outlets to the PG&E Table Mountain-Tesla 500-kV OH line, along with their respective routes and lengths and the locations of the additional structures between the substation and the Table Mountain-Tesla 500-kV line. Should the proposed 230-kV UG cable gen-tie line be terminated on a steel pole/structure at the 500/230-kV substation, please also submit the design drawing of the cable termination pole/structure.
3. Please provide a discussion and drawing of the physical layout showing distinctly (in a larger scale) the preferred and alternate routes (along any road or land) of the proposed approximately 1.71-mile-long, 230-kV UG cable gen-tie line, including Right of Way (ROW) width(s) between the existing SEC 230-kV

**Sutter Energy Center (97-AFC-2C)  
Formal Data Request Set 1**

switchyard and the new PG&E 500 kV/230-kV substation. Describe whether the ROW would go through any private or public lands.

4. Please provide the conductor size and type of the 230-kV cable gen-tie line. Also provide a design drawing of the 230-kV UG cable Duct Bank construction, showing the depth and width below the ground surface, the layout plan of concrete-embedded PVC conduits, and their spacing for drawing power, communication, and grounding cables. Also submit the drawing for the cable termination pole/structure at the SEC 230-kV switching station.
5. Please submit a post-project, one-line electrical diagram of the SEC 230-kV switchyard (for net 600-MW maximum generation output to the ISO grid), showing the generator step-up transformers and the configuration of switchyard 230-kV buses, breakers, and disconnect switches on the 230-kV side, with their respective sizes and/or ratings, and the proposed UG gen-tie line transmission outlet. Also provide a post-project physical layout diagram of the SEC 230-kV switchyard, showing the fence line, all major equipment, and the proposed UG gen-tie line outlet.

**Technical Area:** Air Quality  
**Author:** Jacquelyn Leyva

**BACKGROUND**

The applicant's cumulative impact analysis in the Sutter Energy Center amendment does not include information on any extant projects within a 6-mile radius of the site, nor does it include a request to the Feather River Air Quality Management District (FRAQMD) for a list of projects for which the district is currently processing an application. This information would be required in an application for a new project, in order for the application to be data adequate, so staff expected it would be provided in the SEC petition. Staff needs this information to evaluate any other large stationary sources that have recently been permitted, or are currently in the permitting process within a 6-mile radius of the SEC site.

**DATA REQUEST**

6. Please provide a list from the FRAQMD of large stationary source projects with permitted emissions greater than 5 tons of any single criteria pollutant. Include projects located within six miles of the project site that have been recently permitted, but have not yet started operation, and any projects that are in the process of being permitted.