



April 15, 2016

Jo Lynn Lambert  
Attorney at Law  
Pacific Gas and Electric Co.  
707 Brookside Avenue  
Redlands, California 92373

**Re: Data Request No. 2 for the Sanger Substation Expansion Project. A. 15-09-012**

Dear Ms. Lambert,

Upon further review of Pacific Gas and Electric Company's (PG&E's) application (A. 15-09-012) and associated Proponent's Environmental Assessment (PEA), responses to Deficiency Reports #1 (November 30, 2015) and #2 (January 7, 2016), and responses to Data Request #1 (March 4, 2016) for the Sanger Substation Expansion Project, the California Public Utilities Commission's (CPUC's) Energy Division requests the information contained in Attachment 1 to this letter.

One set of responses should be submitted to the Energy Division and another to Silvia Yáñez at Ecology and Environment, Inc. in San Francisco in hard copy and electronic format. We request that PG&E respond to this data request within 10 business days. Please inform us as soon as possible if you cannot provide responses by this date. Delays in responding to this data request may cause delays in preparation of the Initial Study/Mitigated Negative Declaration.

The Energy Division reserves the right to request information at any point in the environmental review process and during construction of the project, if PG&E's PTC is granted. Please direct questions related to this application to me at (415) 703-2068 or [Billie.Blanchard@cpuc.ca.gov](mailto:Billie.Blanchard@cpuc.ca.gov).

Sincerely,

*Billie Blanchard*

Billie Blanchard  
Project Manager  
Energy Division CEQA Unit

CC: Mary Jo Borak, CPUC Energy Division, Supervisor  
Molly Sterkel, CPUC Energy Division, Program Manager  
Greg Heiden, CPUC Legal Division, Public Utilities Counsel  
Silvia Yáñez, Ecology & Environment, Project Manager  
Kristi Black, Ecology & Environment, Deputy Project Manager

Attachment 1: Data Request #2

## Attachment A: Sanger Substation Expansion Project Data Request # 2

Data requests for Pacific Gas and Electric Company’s (PG&E’s) Sanger Substation Expansion Project are described in detail in the table below.

<i>No.</i>	<i>Reference</i>	<i>Description of data being requested</i>
<b>Project Description</b>		
1	Section 2.3.1, “Substation System”	<p><b>Provide details on what is meant by “12 kv systems.”</b></p> <p>The PEA states that the existing substation has two 12 kv systems. Provide detail on what is meant by two “12 kV systems.” List what is considered part of a “12 kv system.”</p>
2	Section 2.5.8, “Expanded Substation Construction”; March 3 <sup>rd</sup> Data Response, Item 12.	<p><b>Provide details on the extent of the subsurface ground grid and conduit chases.</b></p> <p>The PEA states that there would be excavation for the subsurface ground grid and conduit chases. Data Response Item 12 from March 3, 2016, notes that excavation for foundations would be 4 to 6 feet below finish grade. Clarify whether that depth would also account for excavation of the subsurface ground grid and conduit chases. Also specify approximately how much of the substation area would be excavated for these components.</p>
3	Table 2-1, “Typical Construction Equipment”	<p><b>Provide an estimate of concrete to be imported.</b></p> <p>The PEA notes that concrete would be imported for foundations. Provide an estimate of the volume of concrete that would be imported.</p>
4	PEA pages 2-1 and 2-2, Section 2.5.3.	<p><b>Clarify work that would be done to the existing transfer bus.</b></p> <p>The PEA states on page 2-1 that the existing 115-kV transfer bus and related equipment will be removed after the new facilities are in service. Likewise, Section 2.5.3 mentions that the main and transfer bus would be removed. Page 2-2 of the PEA also mentions that the new substation work would involve elevating the existing 115-kV transfer bus to meet minimum vertical clearance. These statements seem to conflict by indicating the transfer bus would be removed and also elevated; clarify what would be done to the existing transfer bus.</p>
5	PEA Section 2.5.1, “Expanded Substation”	<p><b>Provide an estimate of additional lighting needed for the expanded substation.</b></p> <p>The PEA states there will be security lighting at the substation site. If available, provide an estimate of the additional lighting needed when compared to the existing substation.</p>
6	Section 2.5.1, “Expanded Substation”; January 7 <sup>th</sup> Data Response,	<p><b>State during which construction phase the telecommunications work would be completed. Estimate how much trenching would be required and whether trenching would be required in East Jensen Avenue.</b></p> <p>The PEA describes telecommunications work. PG&amp;E’s Data Response Item 12 from January 7 provides</p>

<i>No.</i>	<i>Reference</i>	<i>Description of data being requested</i>
	Item 12.	additional detail on the route of the telecommunications line. State during which construction phase the telecommunications work would be completed. Provide an estimate of how much trenching would be required for the new underground work. State whether trenching would be required across East Jensen Avenue.
7	PEA Section 2.5.7, “Access Road Construction”	<p><b>Provide more detail about permanent access roads and construction access roads.</b></p> <p>The PEA states that there would be two temporary roads from South McCall Avenue. On the site visit, PG&amp;E indicated that there may be two temporary access roads to the proposed expanded substation site to facilitate truck maneuvering within the site. Provide a description of and GIS information regarding where this loop may be located within the proposed expanded substation site. State how many trucks could be present within the substation site loop at one time.</p>
8	PEA Section 2.5.9, “Power Line Reconfiguration/ Interconnection Construction”	<p><b>Describe how wood poles would be removed.</b></p> <p>Up to 24 wood poles would be removed. Describe how they would be removed, including what equipment would be used.</p>
9	PEA Section 2.5.9.3, “Stringing Conductor”	<p><b>Describe how pull and tension sites would be prepped.</b></p> <p>Describe the process of preparing a pull and tension site, including equipment and activities involved (e.g., vegetation removal, soil compaction).</p>
10	PEA Section 2.5.2, “Power Line Reconfiguration”	<p><b>Provide more detail about topped wood poles locations.</b></p> <p>The PEA states that a number of wood poles may not be removed but may be shortened to allow the distribution lines to remain in place. During the site visit, PG&amp;E commented that these wood poles would be located west of the existing and proposed expanded substation. Provide the proposed number and locations of topped wood poles in GIS format.</p>
11	PEA Section 2.5, “Proposed Project Facilities”	<p><b>Clarify any capacity increases that the proposed project would provide.</b></p> <p>The PEA describes the purpose and components of the proposed expanded substation. Clarify whether the proposed project would provide availability for the interconnection of any additional generation projects that may be proposed within the general area of Sanger. Confirm whether the proposed project would be configured such that additional bays can be added to accommodate additional generation projects.</p>

<i>No.</i>	<i>Reference</i>	<i>Description of data being requested</i>
12	PEA Section 2.3.1, "Substation System"	<p><b>Provide applicant's design standards for 115-kV substations.</b></p> <p>The PEA states that the existing 115 kV facilities no longer meet PG&amp;E utility standards. Please provide PG&amp;E design standards for 115 kV substations.</p>
13	PEA Section 2.5.3, "Removing Existing Substation Facilities"	<p><b>Provide more detail about SF<sub>6</sub> circuit breakers that would be removed.</b></p> <p>The PEA states that eight SF<sub>6</sub> circuit breakers would be replaced once the new facility is completed. Since these circuit breakers could not be moved for use in the proposed expanded substation due to service continuity, clarify whether these circuit breakers could be utilized elsewhere. Provide the estimated age of these breakers and clarify whether they would be utilized as spares or relocated elsewhere as replacements for aging oil-filled breakers.</p>