

Sanger Substation Expansion Project Data Request # 4

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

No.	Reference	Description of data being requested	PG&E Response
Project Description			
1	May 27 th Comments to IS/MND Project Description working draft; April 29 th Data Response, Item 6.	<p>Provide more detail about the proposed receiving antenna system installation at the Fence Meadow Repeater Station.</p> <p>In comments to the draft Project Description for the IS/MND. PG&E stated that a receiving antenna system would be installed at the Fence Meadow Repeater Station. This new information conflicts with response to Data Request #2, which stated that the proposed new microwave path “will not require other upgrades at the receiving end, since this infrastructure is already in place.” In order to include the new proposed receiving antenna system installation in the IS/MND analysis, provide the following information:</p> <ul style="list-style-type: none"> a) Confirm the location of the Fence Meadow Repeater Substation (See Attachment B for detail). Publicly available data indicate the following location: <ul style="list-style-type: none"> - Latitude: 36.96140 - Longitude: -119.17500 b) Confirm that the proposed receiver antenna system would be installed in an existing tower. c) Describe the proposed receiver antenna system and how it would be installed. Provide the estimated duration for this new activity as well a schematic of the proposed antenna system. d) Provide the number of heavy-duty and light-duty vehicles required for the proposed antenna installation, as well as the proposed transportation route to the Fence Meadow Repeater Station. 	<ul style="list-style-type: none"> a) Please note that the Fence Meadow Repeater Station is not a substation and should be called the Fence Meadow Repeater Station. The coordinates provided by the CPUC are generally correct; however, PG&E notes the following coordinates for the repeater station: <ul style="list-style-type: none"> Latitude: 36.961778° Longitude: -119.175389° b) Confirmed. PG&E will be mounting a new antenna system (two dishes) onto the existing tower. No new permanent ground disturbance will be required. c) The antenna system will consist of two dishes due to the distance of the microwave path . The first dish will receive the signal from Sanger Substation and the second dish will strengthen the signal throughout the path. Both dishes will be approximately 4’ in diameter. Construction is anticipated to take approximately one week and will use a crane with one crane operator and approximately 3 additional workers to install the antenna system onto the tower. <p>A typical antenna schematic was previously provided to the CPUC in response to Data Request #3 dated May 3, 2016, and also applies to this location. The actual design for the Sanger Microwave antenna system at Fence Meadow Repeater Station is not yet available.</p>

<i>No.</i>	<i>Reference</i>	<i>Description of data being requested</i>	<i>PG&E Response</i>
		<p>e) The Fence Meadow Repeater Station is located in the U.S. Forest Service (USFS) Sierra National Forest. Confirm what level of approval or coordination with the USFS would be required for the proposed receiver antenna installation.</p>	<p>d) Approximately 1 Crane and 1-2 utility trucks with equipment and workers are expected to be used to install the antenna system. The proposed transportation route to Fence Meadow Repeater Station is from Highway 168 near Shaver Lake, which is approximately 12.5 miles northwest of the repeater station and is an existing all-paved route. From Highway 168, take Dinkey Creek Road east to Ross Crossing Road. Ross Crossing Road will lead south to the Fence Meadow Repeater Station.</p> <p>e) PG&E is required to notify the USFS regarding any new installations at this site via email and phone call typically reaching out to the USFS contact assigned to this area. Formal permitting is not required for minor installations within the existing facility.</p>
2	<p>May 27th Comments to Project Description working draft</p>	<p>Provide updated GIS information to support PG&E's revised disturbance acreages.</p> <p>In comments to the draft Project Description for the IS/MND, PG&E revised disturbance acreage information. Provide the revised GIS data to support the proposed revisions.</p>	<p>PG&E corrected the acreages on page 4-4, lines 32, 33, and 36 to reflect the acreages based on the shapefiles previously sent to the CPUC. It appears that perhaps the existing substation acreage of 4.5 acres may have mistakenly been used as the expansion acreage which should be closer to 6.6. acres.</p> <p>Table 4-4 was also revised based on the the ground grid extending beyond the substation fence by approximately 5feet. This would result in a temporary and total disturbance for the substation of approximately 7.3 acres, but after construction and restoration, the permanent disturbance wihtin the fenceline would equal approximately 6.9 acres. Revised shape files showing these are forthcoming and will be provided to the CPUC as soon as they are available. However, the permanent disturbance area has not changed from the original shape files provided to the CPUC.</p>