

## CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov

**DOCKET**  
**11-AFC-3**DATE MAR 05 2012

March 5, 2012

RECD. MAR 06 2012

Quail Brush Genco, LLC  
Ms. Lori Ziebart  
Project Manager  
9405 Arrowpoint Boulevard  
Charlotte, NC 28273

Regarding: **QUAIL BRUSH GENERATION PROJECT (11-AFC-3), Staff's Data Requests, 59 through 64**

Dear Ms. Ziebart,

Pursuant to Title 20, California Code of Regulations, section 1716, the California Energy Commission staff requests the information specified in the enclosed data requests. The information requested is necessary to: 1) more fully understand the project, 2) assess whether the facility will be constructed and operated in compliance with applicable regulations, 3) assess whether the project will result in significant environmental impacts, 4) assess whether the facilities will be constructed and operated in a safe, efficient and reliable manner, and 5) assess potential mitigation measures.

These data requests, numbered 59 through 64, are being made in the technical area of Transmission System Engineering. Written responses to the enclosed data requests are due to the Energy Commission staff on or before April 6, 2012.

If you are unable to provide the information requested, need additional time, or object to providing the requested information, please send a written notice to the Committee and me within 20 days of receipt of this notice. The notification must contain the reasons for the inability to provide the information or the grounds for any objections (see Title 20, California Code of Regulations, section 1716 (f)).

If you have any questions regarding the enclosed data requests, please call me at (916) 651-0966.

Sincerely,

Eric Solorio  
Siting Project Manager

Enclosure (Data Request Packet)  
cc: Docket (11-AFC-3)

PROOF OF SERVICE (REVISED 3/5/12) FILED WITH  
ORIGINAL MAILED FROM SACRAMENTO ON 3/5/12  
DLS



QUAIL BRUSH GENERATION PROJECT  
(11-AFC-3)

Energy Commission Staff's Data Requests 59-64

March 5, 2012

**Technical Area:** Transmission System Engineering

**Author:** Ajoy Guha, P. E. and Mark Hesters

## **INTRODUCTION**

Staff needs a complete description of the transmission facilities including the project switchyard, generation tie line and the interconnection to the existing transmission grid. These are facilities that fall under the licensing authority of the California Energy Commission and complete descriptions are required in order to analyze compliance with applicable Laws, Ordinances, Regulations and Standards.

## **BACKGROUND**

Supplement 2 to the AFC does not include a complete electrical one-line diagram of 138/13.8kV QBGP switchyard and its physical layout drawing (Supplement 2 to the AFC dated February, 2012, page 1-1)

## **DATA REQUESTS**

59. Provide a complete electrical one-line diagram (or resubmit Exhibit 4 with amended size/ratings of the applicable equipment and/or missing elements) of the proposed QBGP 138/13.8 kV switchyard showing all equipment for all eleven generator units' interconnection with the switchyard with their respective sizes and/or ratings as follows: i) Any bus duct connectors or overhead conductors or cables, 13.8/15 kV switch gear, buses, breakers & disconnect switches on the low side of generator step-up transformer (GSU). ii) The GSU and short overhead conductors/cables from the GSU high side to the switchyard 138 kV bus with the configuration of the switchyard 138 kV buses, breakers, disconnect switches, along with the proposed generator (gen) tie line transmission outlet.
60. Provide a physical layout drawing of the QBGP 138/13.8 kV switchyard showing all major equipment (generators, buses, transformers, breakers and disconnect switches etc.) and transmission line outlet(s).

## **BACKGROUND**

The submitted generator (gen) tie line route description and diagram in Supplement 2 of the AFC are incomplete and not distinct (Supplement 2 to the AFC dated February, 2012, page 2-1, Figure 1.1-1).

## **DATA REQUEST**

61. Please provide a discussion and drawing of the physical layout showing distinctly (in a larger scale) the preferred route (along any road or land or overhead line) of the proposed 6,850-foot long 138 kV overhead gen tie line including Right of Way (ROW) width(s) between the proposed QBGP 138 kV switchyard and the SDG&E 138 kV Carlton Hills substation. Describe whether the ROW would be through private and/or public lands.

## **BACKGROUND**

The submitted steel pole design diagrams are incomplete (Supplement 2 to the AFC dated February, 2012, page 2-1, Figures 2.3-1, 2.3-2 & 2.3-3).

**DATA REQUEST**

62. Please submit design diagrams of the tangent steel pole and heavy- angle steel pole showing configuration of insulators and conductors with their respective position measurements on the pole including ground clearance from the lowest conductor, height of the pole above and below ground, and the ground conductor, if any, with its size. Also include similar design diagrams of the dead-end poles or structures for the overhead gen tie line at each end.

**BACKGROUND**

Supplement 2 to the AFC does not include electrical one-line diagrams and physical layout drawings of the SDG&E Carlton Hills 138 kV substation for the proposed changes (Supplement 2 to the AFC dated February, 2012, page 2-1).

**DATA REQUESTS**

63. Please provide pre and post-project electrical one-line diagrams of the SDG&E Carlton Hills 138 kV substation with all transmission outlets showing the proposed modifications in the substation for interconnection of the gen tie line along with configuration of buses, breaker, disconnect switches, and their respective sizes and/or ratings.
64. Also provide pre and post-project physical layout drawings of the SDG&E Carlton Hills 138 kV substation with all transmission outlets.



**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT  
COMMISSION OF THE STATE OF CALIFORNIA  
1516 NINTH STREET, SACRAMENTO, CA 95814  
1-800-822-6228 – WWW.ENERGY.CA.GOV**

**APPLICATION FOR CERTIFICATION  
FOR THE *QUAIL BRUSH GENERATION PROJECT***

DOCKET NO. 11-AFC-3  
PROOF OF SERVICE  
(Revised 2/29/2012)

**APPLICANT**

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**APPLICANT'S CONSULTANTS**

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**COUNSEL FOR APPLICANT**

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**INTERESTED AGENCIES**

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**ENERGY COMMISSION –  
DECISIONMAKERS**

KAREN DOUGLAS  
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**ENERGY COMMISSION –  
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Jennifer Jennings  
Public Adviser's Office  
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[publicadviser@energy.state.ca.us](mailto:publicadviser@energy.state.ca.us)

DECLARATION OF SERVICE

I, Diane Scott, declare that on March 5, 2012, I served and filed a copy of the **QUAIL BRUSH GENERATION PROJECT (11-AFC-3), Staff's Data Requests, 59 through 64**. This document is accompanied by the most recent Proof of Service list, located on the web page for this project at: [\[http://www.energy.ca.gov/sitingcases/quailbrush/index.html\]](http://www.energy.ca.gov/sitingcases/quailbrush/index.html).

The document has been sent to the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit or Chief Counsel, as appropriate, in the following manner:

*(Check all that Apply)*

For service to all other parties:

- Served electronically to all e-mail addresses on the Proof of Service list;
- Served by delivering on this date, either personally, or for mailing with the U.S. Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses **NOT** marked "e-mail preferred."

**AND**

For filing with the Docket Unit at the Energy Commission:

- by sending an electronic copy to the e-mail address below (preferred method); **OR**
- by depositing an original and 12 paper copies in the mail with the U.S. Postal Service with first class postage thereon fully prepaid, as follows:

**CALIFORNIA ENERGY COMMISSION – DOCKET UNIT**

Attn: Docket No. 11-AFC-3  
1516 Ninth Street, MS-4  
Sacramento, CA 95814-5512  
[docket@energy.state.ca.us](mailto:docket@energy.state.ca.us)

**OR, if filing a Petition for Reconsideration of Decision or Order pursuant to Title 20, § 1720:**

- Served by delivering on this date one electronic copy by e-mail, and an original paper copy to the Chief Counsel at the following address, either personally, or for mailing with the U.S. Postal Service with first class postage thereon fully prepaid:

California Energy Commission  
Michael J. Levy, Chief Counsel  
1516 Ninth Street MS-14  
Sacramento, CA 95814  
[mlevy@energy.state.ca.us](mailto:mlevy@energy.state.ca.us)

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.

**Original Signed By:**

Diane Scott  
Siting, Transmission and Environmental Protection Division