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DOCKET 09-AFC-10
DATE <u>OCT 12 2010</u>
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October 12, 2010

California Energy Commission
Dockets Unit
1516 Ninth Street
Sacramento, CA 95814-5512

**Subject: RICE SOLAR ENERGY, LLC'S RESPONSES TO SUPPLEMENTAL DATA REQUESTS
RICE SOLAR ENERGY PROJECT
DOCKET NO. (09-AFC-10)**

Enclosed for re-filing with the California Energy Commission is the original of **RICE SOLAR ENERGY, LLC'S RESPONSES TO SUPPLEMENTAL DATA REQUESTS**, for the Rice Solar Energy Project (09-AFC-10). The documents enclosed were previously submitted to the Dockets Unit, however, did not appear to be docketed.

Sincerely,

A handwritten signature in blue ink that reads "Marie Mills".

Marie Mills

Rice Solar Energy LLC's Responses to Supplemental Data Requests

August 6, 2010

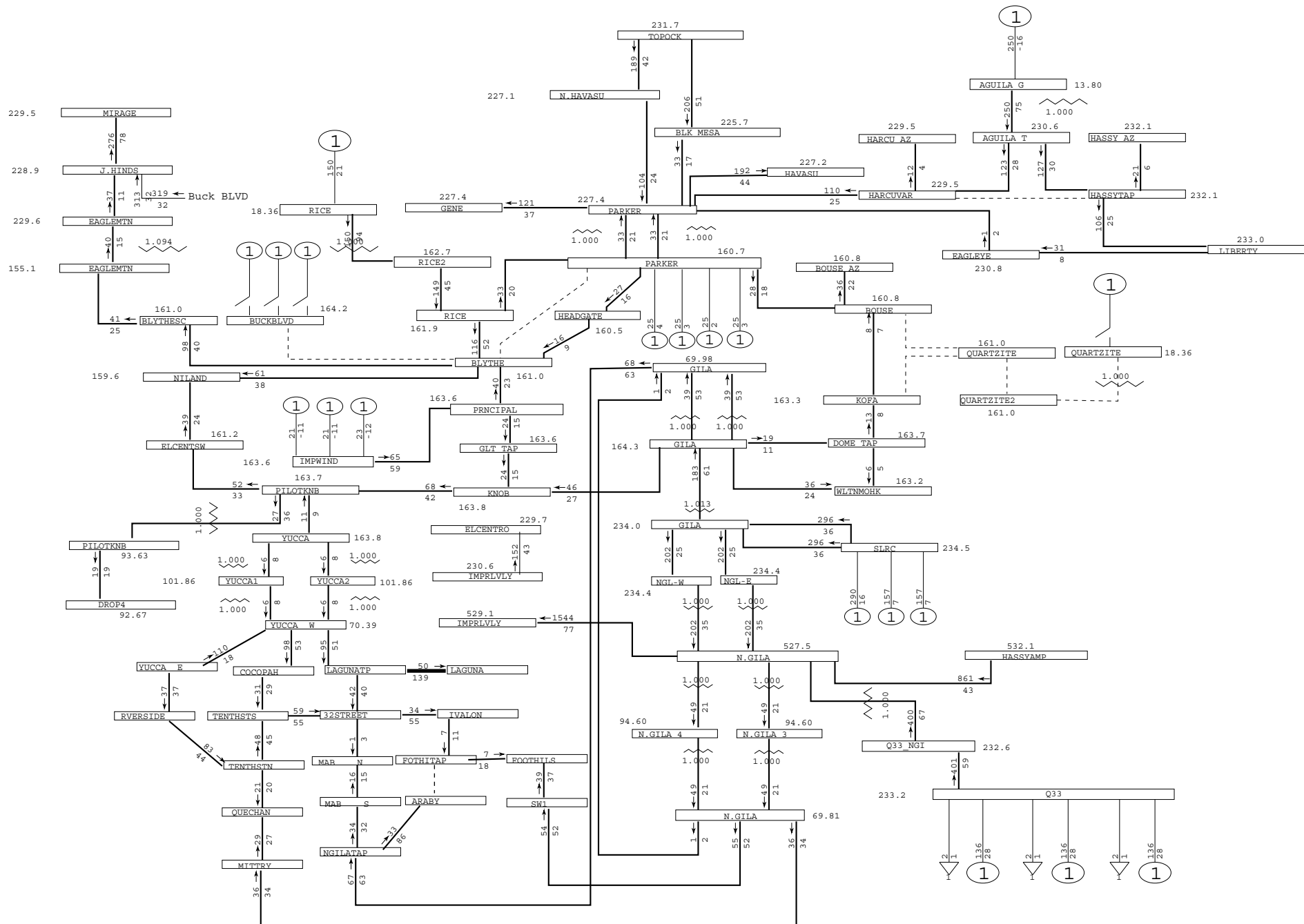
In response to Ajoy Guha's email request dated 7/14/2010 – Response provided by Solar Reserve using Western data:

- 1) 13 HS Base Case with Quartzsite Gen off:
 - a. Load Flow diagram for Base Case with RICE ON – [Included in Figure 21](#)
 - b. Load Flow diagram for Category B outage of the Palo Verde-Colorado River 500kV line – [Included in figure 22 \(Pre-Project\) and 23 \(Post-Project\)](#)
 - c. Figures 2 & 3 – N. Gila-Imperial Valley (IV) 500 kV line outage case shows exacerbated pre-project overloads on the Knob-Pilot Knob (PK) 161 kV line, PK-El Centro Swtn. 161 kV line and PK 161/92 kV transformer. Note: These overloads are not listed in Table 6 of the SIS report – [The overload of Knob-Pilot Knob is listed in Table 12 of the SIS report. The other lines are a direct result of this line overloading which is why only the worst element was shown.](#)
- 2) 13 HW Base Case with Quartzsite Gen off:
 - a. Load flow diagrams for the Base Case with RICE ON – [Included in Figure 24](#)
 - b. Figures 12 & 13: N. Gila-IV 500 kV outage case- Table 8 in the SIS report shows pre-project overload on the IV-El Centro 230 kV line which is not shown in the diagrams. – [Included as Figures 25 \(Pre-Project\) and 26 \(Post-Project\)](#)
 - c. Load flow diagrams for Category B outage of the Palo Verde-Colorado River 500 kV line – [Included in Figure 27 \(Pre-Project\) & 28 \(Post-Project\)](#)
- 3) 13 HS Base Case with Quartzsite Gen on:
 - a. Load flow diagram for the Base Case with RICE ON – [Included in Figure 29](#)
 - b. Load flow diagram for Category B outage of the N. Gila-IV 500kV line – [Included in Figure 30 \(Pre-Project\) & 31 \(Post-Project\) Only the worst overload was shown on the table for the Knob-Pilot Knob area similar to item 1c above.](#)
- 4) 13 HW Base Case with Quartzsite Gen on:
 - a. Load flow diagram for the Base Case with RICE ON – [Included in Figure 32](#)
 - b. Figures 17 & 18: N. Gila-IV 500 kV outage case-Table 9 in the SIS report shows pre project overload on the IV-El Centro 230 kV line which is not shown in the diagrams. – [Included as Figure 33 \(Pre-Project\) & 34 \(Post-Project\).](#)
 - c. Load flow diagrams for Category B outage of the Palo Verde-Colorado River 500 kV line – [Included in Figure 35 \(Pre-Project\) & 36 \(Post-Project\)](#)
- 5) Stability Plots
 - a. Provide Switching chits for all simulations including names of substations for breaker failure cases with the sequences for 15 cycle fault clearing times – [Per our NDA with Western we are not able to share this information.](#)
 - b. Full load rejection simulation besides the Rice plant monitor voltages and frequencies at Parker and Blythe substations 161 kV buses. - [Refer to email dated 7/16/2010, attachment "Rice Plots for CEC_1.pdf"?](#)
- 6) Additional data requested Friday July 9, 2010
 - a. Submit letters from SCE and IID with their comments about the SIS and the proposed mitigation, if any. – [Utilities have been contacted and we are awaiting the response.](#)
 - b. Mention of show in a one-line diagram the major interconnection details modeled for the RICE Solar Energy project (RSEP) to the Western grid (such as amount of net RSEP generation, the step-up transformer size and impedance, mileage of the new Gen Tie line and size of its conductor, lengths of the existing Parker-Blythe 161 kV line from Blythe and Parker substations respectively to the proposed new RICE substation point of interconnection. – [Included in Figure 37](#)
 - c. All planned transmission upgrades up to 2013 in the Western and CAISO grids have been included? – [Western has the following response "The funded upgrades for](#)

Western's system have been incorporated into the 2013 cases. Utilities are asked to include their planned transmission projects into the approved WECC base cases.

Western cannot independently verify that each utility in the CAISO area has complied with the WECC base case building process.”

- d. All Major path flows are within limits. – Verified this in all base cases.
- e. Mention construction responsibilities of the interconnection facilities between applicant and Western. – Will be identified in the Facilities Study which is currently in the Western process. The SIS identifies that SR will be responsible for building up to the Rice Substation and that Western will build the Rice Substation.
- f. Mention the base case used for the Short Circuit study. – Western indicated that both the 13hs and 13hw cases were used for the short circuit study. See Table 14 in the SIS.



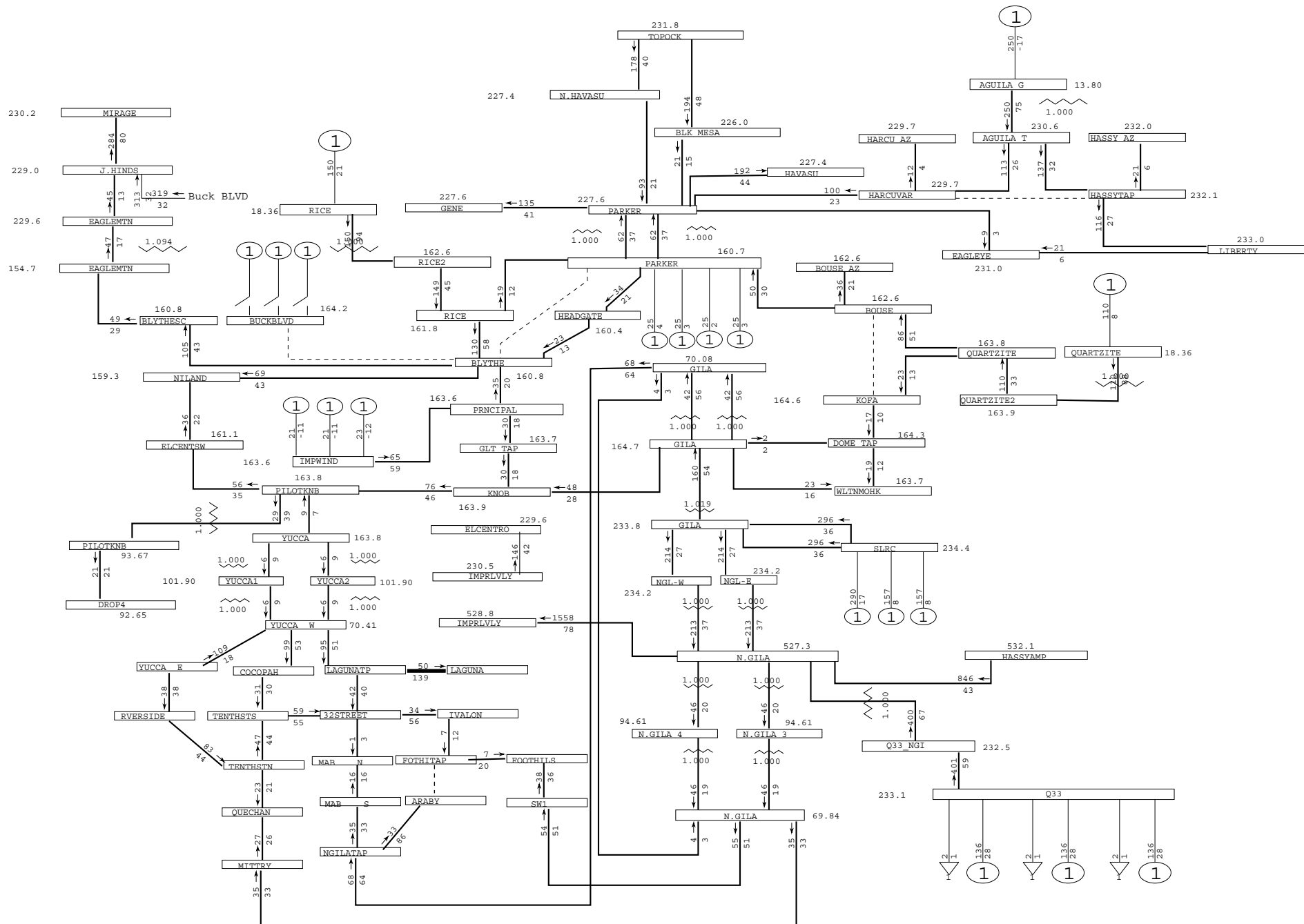
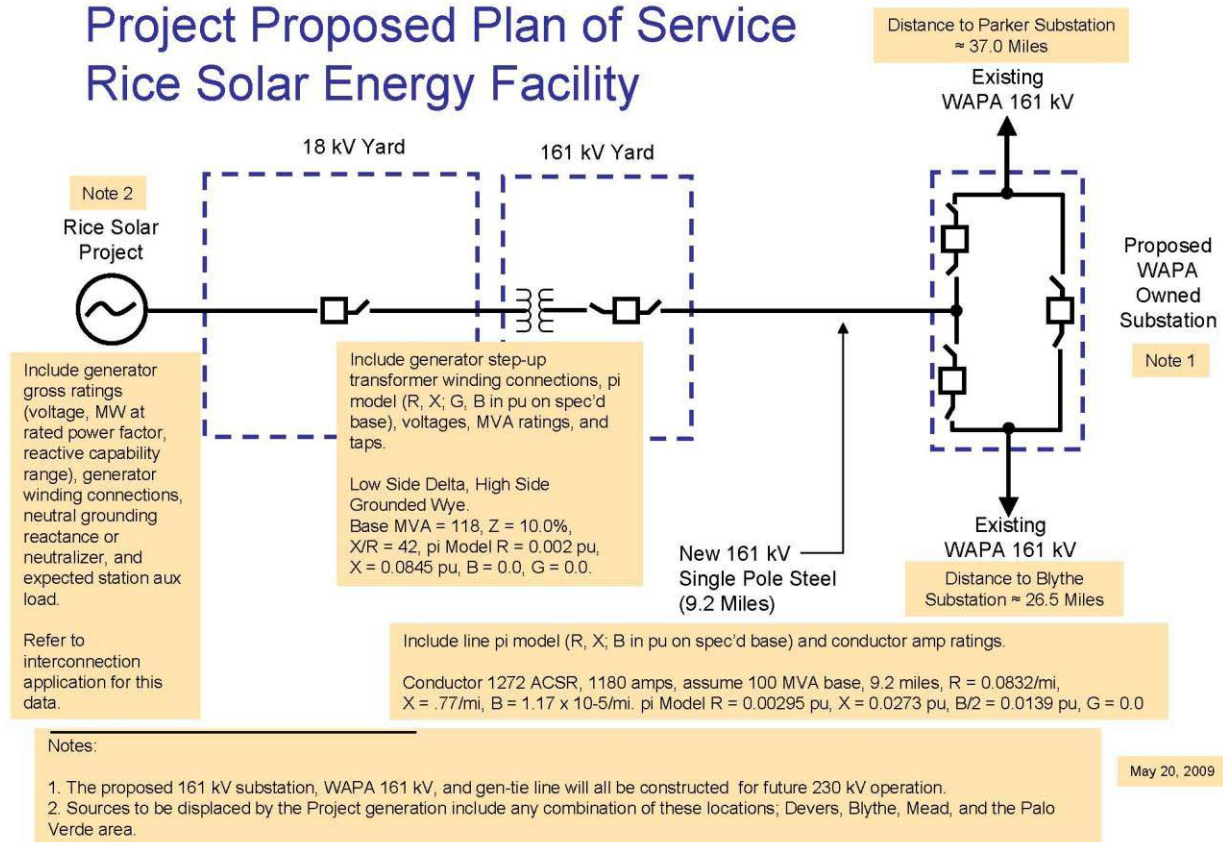


Figure 29

Figure 37

SolarReserve Feasibility Study Project Proposed Plan of Service Rice Solar Energy Facility





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 *RICE SOLAR ENERGY POWER
PLANT PROJECT***

Docket No. 09-AFC-10

PROOF OF SERVICE
(Revised 8/5/2010)

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DECLARATION OF SERVICE

I, Marie Mills, declare that on October 12, 2010, I served and filed copies of the attached, **RICE SOLAR ENERGY, LLC'S RESPONSES TO SUPPLEMENTAL DATA REQUESTS, dated August 6, 2010**. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:

[<http://www.energy.ca.gov/sitingcases/ricesolar>].

The documents have been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(Check all that Apply)

FOR SERVICE TO ALL OTHER PARTIES:

☒ sent electronically to all email addresses on the Proof of Service list;

☐ by personal delivery;

☒ by delivering on this date, for mailing with the United States 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 "email preferred."

AND

FOR FILING WITH THE ENERGY COMMISSION:

☒ sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (***preferred method***);

OR

☐ depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. **09-AFC-10**

1516 Ninth Street, MS-4

Sacramento, CA 95814-5512

docket@energy.state.ca.us

I declare under penalty of perjury 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.



Marie Mills