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August 1, 2011

Melissa A. Foster Direct (916) 319-4673 mafoster@stoel.com

BY HAND DELIVERY AND U.S. MAIL

Mr. Eric Solorio, Siting Project Manager California Energy Commission 1516 Ninth Street Sacramento, CA 95814 **DOCKET**

11-AFC-1

DATE <u>AUG 01 2011</u> RECD. AUG 01 2011

Pio Pico Energy Center Project (11-AFC-01)

Supplemental Responses to Staff's Data Requests, Set 1 (#29 and 30)

Dear Mr. Solorio:

Re:

On Friday, July 15, 2001, Applicant Pio Pico Energy Center LLC submitted responses to Staff's data requests, set one (#1-59) for the Pio Pico Energy Center Project. Therein, Applicant explained that it needed time to finalize responses to requests BIO-29 and BIO-30. Enclosed herein please find Applicant's supplemental responses to data requests BIO-29 and BIO-30, as well as related air quality modeling files contained on a disc.

Paper and electronic copies of these responses, including the related air quality modeling files will be served to all the parties. In addition, for your convenience, we have sent this data to Mr. Birdsall at Aspen.

Should you have any questions regarding this submittal, please do not hesitate to contact me.

Respectfully submitted.

Melissa A. Foster

MAF:kjh Enclosures

cc: See Proof of Service List

PIO PICO ENERGY CENTER APPLICATION FOR CERTIFICATION SUPPLEMENTAL RESPONSES TO CEC DATA REQUESTS 11-AFC-01

Technical Area: Biological Resources

BACKGROUND

Page 5.6-20 of the AFC describes air emissions as an operational impact associated with the project. The project's anticipated NO_X emissions may contribute to the ongoing (cumulative) degradation of endangered species habitat located near the project site. NO_X emissions are a concern of USFWS and CDFG, and staff will be pursuing the issue with those agencies, and share information with the applicant as it becomes available.

Data Request BIO-29:

Please also provide a cumulative impact analysis of the nitrogen deposition values in kg/ha/yr. Provide an isopleths graphic over USGS 7.5-minute maps of the direct nitrogen deposition values in the cumulative analysis and specify the cumulative nitrogen deposition rate in kg/ha/yr at any affected special status habitat, vegetation type, or critical habitat. The geographical extent of the cumulative nitrogen deposition mapping should be directed by the results, i.e. extend geographically to where the deposition is considered below any stated threshold of significance.

Response:

The requested isopleth graphic is shown in Figure DR-BIO-29.1 and includes the cumulative nitrogen deposition, with the project contribution. Figure DR-Bio 29.2 shows the cumulative background nitrogen deposition but does not include the project contribution. As shown on the aforementioned figures, the facility contributes a very small amount of nitrogen deposition (less than 6% to the regional nitrogen deposition rate). Furthermore, the proposed threshold for significance for cumulative impacts in sensitive areas (5 kg/ha/yr) is exceeded by the existing regional background, which is estimated to be 11.56 kg/ha/yr (Tonneson et. al. 2007).

PIO PICO ENERGY CENTER APPLICATION FOR CERTIFICATION SUPPLEMENTAL RESPONSES TO CEC DATA REQUESTS 11-AFC-01

Technical Area: Biological Resources

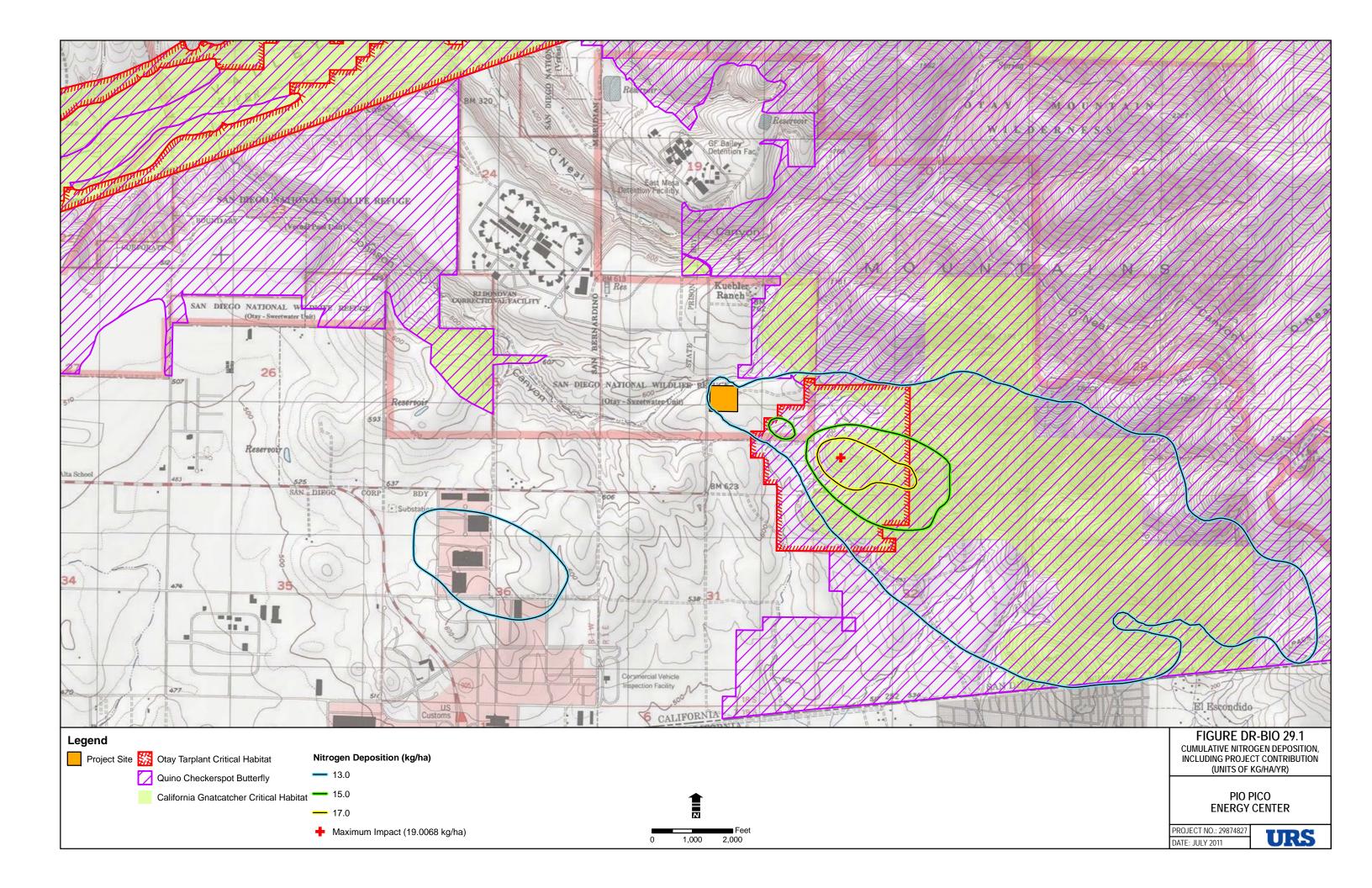
Data Request BIO-30:

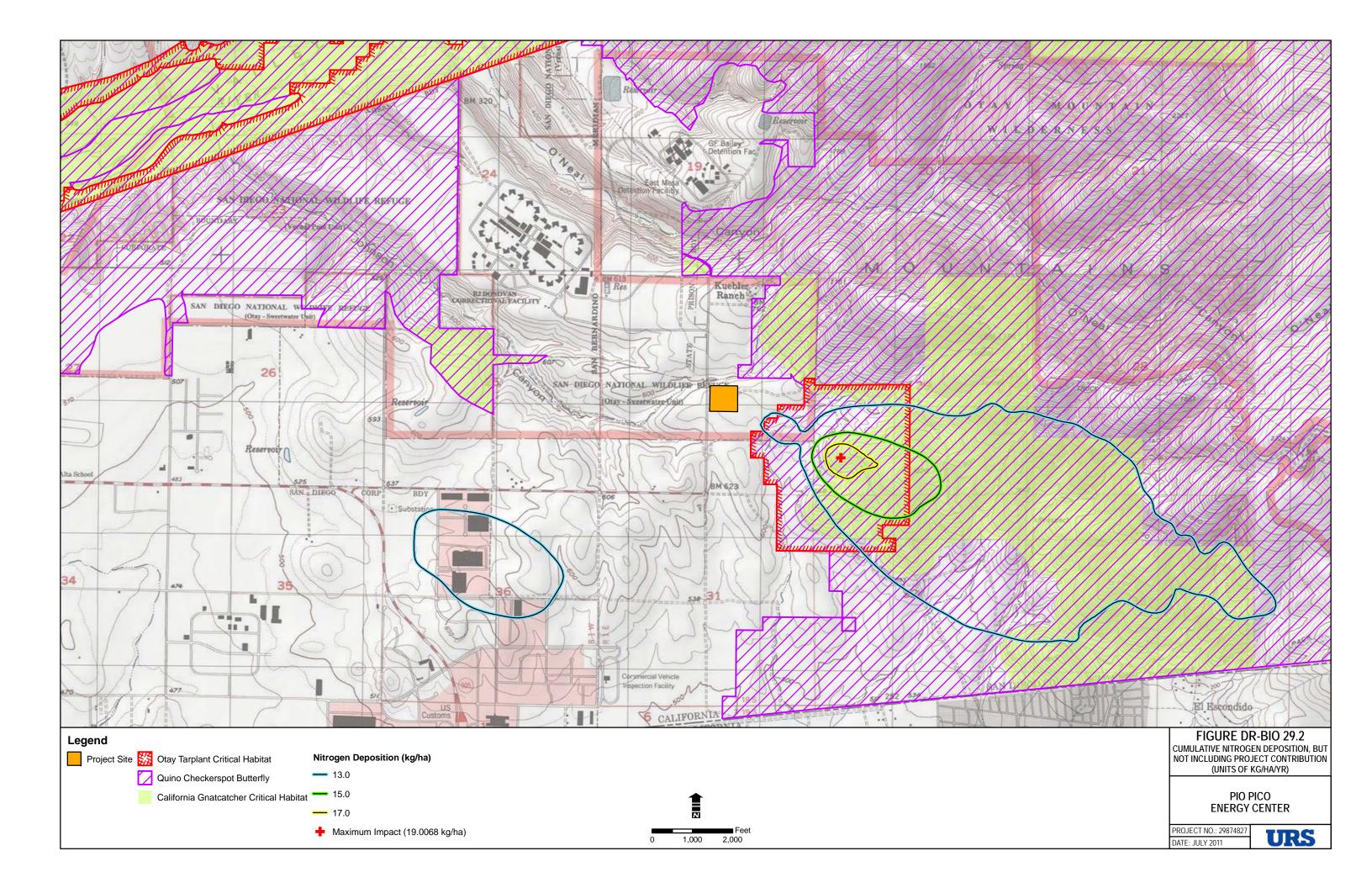
Please describe potential mitigation to decrease cumulative nitrogen deposition impacts to less than significant levels for any affected resources, particularly Quino checkerspot critical habitat. special status vegetation types, or other special status habitat. Levels of significance should be determined using the references cited in data request 12, or as otherwise specified and agreed-upon by the California Energy Commission,

CDFG. and USFWS.

Response:

Nitrogen compounds from the facility will contribute small (less than 6% to the regional nitrogen deposition rate) concentrations to the regional background. To mitigate for the small indirect impacts to native vegetation and quino checkerspot butterfly habitat, the project owner shall provide funds for quino checkerspot butterfly research and habitat management that would include periodic weeding of nonnative plants. To calculate the funds necessary for the endowment, applicant assumed that: 1) weeding in the area would cost approximately \$1,000/acre; and 2) the 50-acre habitat area would be weeded every four years. The cost would be \$50,000 (\$1,000/acre x 50 acres). Consistent with this funding approach, the project owner will make a single payment in the amount of \$50,000 to an existing endowment or create a new one prior to the start of commissioning. With implementation of this mitigation, the project will have no significant adverse impacts on biological resources (e.g. Quino checkerspot butterfly, critical habitats, and native vegetation types).





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 PIO PICO ENERGY CENTER, LLC

Docket No. 11-AFC-1 PROOF OF SERVICE (Revised 5/12/11)

Pio Pico Energy Center, LLC

Letter to Eric Solorio, Siting Project Manager, California Energy Commission, dated August 1, 2011 re Applicant's Supplemental Responses to Staff's Data Requests, Set 1 (#29 and #30)

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DECLARATION OF SERVICE

I, Judith M. Warmuth, declare that on August 1, 2011, I deposited copies of the aforementioned document in the United States mail at 500 Capitol Mall, Suite 1600, Sacramento, California 95814, with first-class postage thereon fully prepaid and addressed to those identified on the Proof of Service list above.

AND/OR

Transmission via electronic mail, personal delivery or first class U.S. mail were consistent with the requirements of California Code of Regulations, Title 20, sections 1209, 1209.5, and 1210. All electronic copies were sent to all those identified on the Proof of Service list above.

I declare under penalty of perjury that the foregoing is true and correct.

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