

Memorandum

Date: January 23, 2009
Telephone: (916) 654-4996

To: James D. Boyd, Vice Chairman
 Arthur H. Rosenfeld, Ph.D., Commissioner
 Jeffrey Byron, Commissioner
 Karen Douglas, Commissioner

DOCKET	
08-AFC-11	
DATE	<u>JAN 23 2009</u>
RECD.	<u>JAN 23 2009</u>

From: California Energy Commission – **Melissa Jones**
 1516 Ninth Street
 Sacramento, CA 95814-5512
Executive Director

Subject: CPV VACA STATION COMBINED CYCLE POWER PLANT PROJECT, DATA ADEQUACY RECOMMENDATION (08-AFC-11)

On November 18, 2008, CPV Vacaville, LLC (CPVV) submitted an Application for Certification (AFC) to the California Energy Commission to construct and operate an electrical generating plant in the city of Vacaville, Solano County, California. The proposed CPV Vaca Station is a combined cycle, nominal 660 megawatt (MW) power generation facility.

On January 14, 2009, the Energy Commission determined that the CPV Vaca Station project did not meet all the requirements listed in Title 20, section 1704, and Division 2, Chapter 5, Appendix B of the California Code of Regulations for the 12-month process. Specifically, the AFC was deficient in seven of the 23 technical areas reviewed: Air Quality, Cultural Resources, Land Use, Noise, Traffic and Transportation, Transmission System Design, and Visual Resources.

On January 9, 2009, CPVV filed an AFC Data Adequacy Supplement B to the AFC containing the required information for review. Staff has completed their review of the supplemental information and believes that the AFC now meets the listed requirements in all seven of the previously deficient technical disciplines, and believes the project is data adequate with the filing of the AFC Supplement B. Attached is a summary table and data adequacy worksheets for the seven technical disciplines previously determined to be data inadequate, reflecting that the supplemental information submitted by CPVV achieves data adequacy.

At the Energy Commission's January 28, 2009 Business Meeting, I will recommend Commission approval of the Executive Director's data adequacy recommendation and the appointment of a Siting Committee to oversee the CPV Vaca Station Project. If you have any questions, please call Rod Jones, staff's Project Manager, at (916) 654-5191.

Attachments

**Attachment A
 Overview of Energy Commission Staff's
 Data Adequacy Determination
 CPV VACA STATION
 08-AFC-11**

Technical Area	Attachment B Page No.	Adequate
AIR QUALITY	4	YES
CULTURAL RESOURCES	12	YES
LAND USE	20	YES
NOISE	25	YES
TRAFFIC AND TRANSPORTATION	30	YES
TRANSMISSION SYSTEM DESIGN	35	YES
VISUAL RESOURCES	40	YES

ATTACHMENT B

**ENERGY COMMISSION STAFF'S
List of Data Inadequacies**

**CPV VACA STATION
08-AFC-11**

January 23, 2009

Adequacy Issue Adequate Inadequate
 Technical Area: Air Quality
 Project Manager: Rod Jones

DATA ADEQUACY WORKSHEET
 Project: CPV Vaca Station
 Docket: 08-AFC-11

Revision No. 1 Date January 23, 2009
 Technical Staff: Brewster Birdsall
 Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 2.1.1 and 5.1.1 Section 5.1.4 Table 5.1-21 Table 5.1-24 Table 5.1-27 Section 5.1.6 Appendix 5.1D-3	Yes	
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	Letter of completeness from Yolo-Solano Air Quality Management District dated December 10, 2008.	Yes	
Appendix B (g) (8) (B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	Section 2.1.2, p. 2-1 Section 5.1.4.1, p. 5.1-21 Tables 5.1-10 to 12 Appendix 5.1B Table 5.1B-4	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 2.1.4, Section 2.1.9 pp. 2-27 p. 5.1-1 Section 5.1.7.3.3 Table 5.1-30 pp. 5.1-58 to 62 Appendix 5.1E	Yes	

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Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Section 2.1.7 pp. 2-19 to 2-20 Table 5.1-12, p. 5.1-23 Section 5.1.4.2.2, p. 5.1-26 Appendix 5.1A-4 pp. A-5 to A-8	Yes	
Appendix B (g) (8) (E)	The emission rates of criteria pollutants and greenhouse gases (CO ₂ , CH ₄ , N ₂ O, and SF ₆) from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.	Section 5.1.4.2 pp. 5.1-24 to 29 Tables 5.1-14 to 20 Appendix 5.1A <u>Information provided in January 9, 2009 Data Adequacy Supplement B, Sect. 5.1, 2</u>	No <u>Yes</u>	Please provide the emission rates of greenhouse gases (CO₂, CH₄, N₂O, and SF₆) from all sources including the stacks, cooling tower, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.
Appendix B (g) (8) (F)(i)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Section 2.6, p. 2-42 Section 5.1.4.1 p. 5.1-21 Appendix 5.1A pp. A-15 to A-23	Yes	

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Appendix B (g) (8) (F)(ii)	A description of the project's planned initial commissioning phase, which is the phase between the first firing of emissions sources and the commercial operations date, including the types and durations of equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests.	Section 5.1.4.4, p. 5.1-35 Appendix 5.1B Tables 5.1B-7 and 5.1B-8 pp. B-55 to 59	Yes	
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Section 5.1.3 Tables 5.1-2 to 5.1-7 pp. 5.1-9 to 20 Section 5.1.4.4.1 p. 5.1-36	Yes	.
Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.	Section 5.1.4.4.1, p. 5.1-31 Appendix 5.1B On CD	Yes	

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Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995)), which is incorporated by reference in its entirety.	Section 5.1.4.4.1, p. 5.1-31 Not applicable	Yes	
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Appendix 5.1B	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:	See below		

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Appendix B (g) (8) (I) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM ₁₀) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO _x), sulfur dioxide (SO ₂), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM ₁₀) and particulate matter less than 2.5 microns in diameter (PM _{2.5})] from construction-related equipment;	Section 5.1.4.6 Appendix 5.1D On CD	Yes	
Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant (NO _x , SO ₂ , CO, PM ₁₀ , and PM _{2.5}) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions;	Section 5.1.4.4 Table 5.1-21 Table 5.1-24 Table 5.1-27 Appendix 5.1B Tables 5.1B-2 to 5.1B-6 On CD	Yes	

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Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard; and	Section 5.1.5, p. 5.1-43 Appendix 5.1F <u>Information provided in January 9, 2009 Data Adequacy Supplement B, Sect. 5.1, 3</u>	No <u>Yes</u>	Please provide a copy the of air quality modeling protocol described in AFC Appendix 5.1F.
Appendix B (g) (8) (I) (iv)	An air dispersion modeling analysis of the impacts of the initial commissioning phase emissions on state and federal ambient air quality standards for NO _x , SO ₂ , CO, PM ₁₀ , and PM _{2.5} .	Section 5.1.4.4 p. 5.1-35 and 5.1-37 Appendix 5.1B Tables 5.1B-7 to 5.1B-9	Yes	
Appendix B (g) (8) (J)	If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information:	See below		
Appendix B (g) (8) (J) (i)	The quantity of offsets or emission reductions that are needed to satisfy air permitting requirements of local permitting agencies (such as the air district), state and federal oversight air agencies, and the California Energy Commission. Identify by criteria air pollutant, and if appropriate, greenhouse gas; and	Section 5.1.7.3.3 Table 5.1-32, p. 5.1-60	Yes	

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Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions;	Section 5.1.7.3.3 p. 5.1-61 Appendix 5.1G Confidential Submittal dated December 5, 2008.	Yes	
Appendix B (g) (8) (K)	A detailed description of the mitigation, if any, which an applicant may propose, for all projects impacts from criteria pollutants that currently exceed state or federal ambient air quality standards, but are not subject to offset requirements under the district's new source review rule.	Section 5.1.6 Appendix 5.1D-3, p. D-2 <u>Information provided in January 9, 2009 Data Adequacy Supplement B, Sect. 5.1.4</u>	No <u>Yes</u>	Please provide a description of mitigation proposed for particulate matter less than 2.5 microns (PM2.5) because it is a pollutant that currently exceeds the ambient air quality standards but is not subject to offset requirements under the new source review rule.
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.1.7.3 Table 5.1-29 pp. 5.1-55 to 57	Yes	

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Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 5.1.7.3 Table 5.1-29 pp. 5.1-55 to 57	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Section 5.1.8 Table 5.1-33, p. 5.1-62	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Schedule indicating when outside permits will be obtained: Vol. 1, p. 5.3-20	Yes	

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Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Existing site conditions: Vol. 1, p. 5.3-2 Impacts due to project: Vol. 1, p. 5.3-12 Mitigation measures for known impacts: Vol. 1, p. 5.3-13 <u>Information provided in January 9, 2009 Data Adequacy Supplement B, Attachment DA5.3-1, p.6.</u> Effectiveness of the proposed measures: Any monitoring plans proposed to verify the effectiveness of the mitigation	Yes Yes No <u>Yes</u> N/A N/A	Applicant needs to incorporate mitigation measures for impact to the integrity of setting of new built environment resources; if any are identified in the required new built environment survey (below).
Appendix B (g) (2) (A)	A summary of the ethnology, prehistory, and history of the region with emphasis on the area within no more than a 5-mile radius of the project location.	Summary of the ethnology, prehistory, and history: Vol. 1, pp. 5.3-2–5.3-5	Yes	

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Appendix B (g) (2) (B)	<p>The results of a literature search to identify cultural resources within an area not less than a 1-mile radius around the project site and not less than one-quarter (0.25) mile on each side of the linear facilities. Identify any cultural resources listed pursuant to ordinance by a city or county, or recognized by any local historical or archaeological society or museum. Literature searches to identify the above cultural resources must be completed by, or under the direction of, individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.</p> <p>Copies of California Department of Parks and Recreation (DPR) 523 forms (Title 14 CCR §4853) shall be provided for all cultural resources (ethnographic, architectural, historical, and archaeological) identified in the literature search as being 45 years or older or of exceptional importance as defined in the National Register Bulletin Guidelines, (36CFR60.4(g)). A copy of the USGS 7.5' quadrangle map of the literature search area delineating the areas of all past surveys and noting the California Historical Resources Information System (CHRIS) identifying numbers shall be provided. Copies also shall be provided of all technical reports whose survey coverage is wholly or partly within .25 mile of the area surveyed for the project under Section (g)(2)(C), or which report on any archaeological excavations or architectural surveys within the literature search area.</p>	<p>Literature searches: Vol. 1, pp. 5.3-5-5.3-7, 5.3-9, Vol. 2, Appendix 5.3C (Confidential filing)</p> <p>Cultural resources listed under a city or county ordinance: Vol. 2, Appendix 5.3C (Confidential filing)</p> <p>Cultural resources recognized by local societies: Vol. 2, Appendix 5.3C (Confidential filing)</p> <p>Names/quals for lit searchers/directors: Vol. 2, Appendix 5.3C (Confidential filing)</p> <p>DPR 523s for known resources: Vol. 2, Appendix 5.3C (Confidential filing)</p> <p>Map of lit search area with past surveys and CHRIS #: Vol. 2, Appendix 5.3C (Confidential filing)</p> <p>CHRIS reports: Vol. 2, Appendix 5.3C (Confidential filing)</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	

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Appendix B (g) (2) (C)	<p>The results of new surveys or surveys less than 5 years old shall be provided if survey records of the area potentially affected by the project are more than five (5) years old. Surveys to identify new cultural resources must be completed by (or under the direction of) individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.</p> <p>New pedestrian archaeological surveys shall be conducted inclusive of the project site and project linear facility routes, extending to no less than 200' around the project site, substations and staging areas, and to no less than 50' to either side of the right-of-way of project linear facility routes. New historic architecture field surveys in rural areas shall be conducted inclusive of the project site and the project linear facility routes, extending no less than .5 mile out from the proposed plant site and from the routes of all above-ground linear facilities. New historic architecture field surveys in urban and suburban areas shall be conducted inclusive of the project site, extending no less than one parcel's distance from all proposed plant site boundaries. New historic architecture field reconnaissance ("windshield survey") in urban and suburban areas shall be conducted along the routes of all linear facilities to identify, inventory, and characterize structures and</p>	<p>Names/quals for archaeological surveyors or directors: Vol. 1, p. 5.3-9, Vol. 2, Appendix 5.3C (Confidential filing)</p> <p>Names/quals for built-environment surveyors or directors: <u>Information provided in January 9, 2009 Data Adequacy Supplement B, Attachment DA5.3-1, Appendix A</u></p> <p>Survey coverage, archaeology: Vol. 1, pp. 5.3-9, 5.3-10</p> <p>Survey coverage, built-environment: Vol. 1, pp. 5.3-10, 5.3-11. <u>Information provided in January 9, 2009 Data Adequacy Supplement B, Attachment DA5.3-1.</u></p>	<p>Yes</p> <p>No <u>Yes</u></p> <p>Yes</p> <p>No <u>Yes</u></p>	<p>The resume of the specialist whose built environment survey is reported in the AFC does not evidence the qualifications to meet the required Secretary of the Interior's Professional Standards for architectural history. Therefore, the applicant needs to have a new built environment survey completed by or under the direction of a specialist who meets the standards.</p> <p>Applicant needs to have a qualified architectural historian survey the area 0.5 mile out from the proposed plant site and from the proposed transmission line route for structures and districts that appear older than 45 years.</p>

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Appendix B (g) (2) (C) (cont.)	districts that appear to be older than 45 years or that are exceptionally significant, whatever their age. A technical report of the results of the new surveys, conforming to the Archaeological Resource Management Report format (CA Office of Historic Preservation Feb 1990), which is incorporated by reference, shall be separately provided and submitted (under confidential cover if archaeological site locations are included).	Tech report for new archaeological survey: <u>Appendix 5.3B (Confidential Filing)</u> Tech report for new built-environment survey. <u>Information provided in January 9, 2009 Data Adequacy Supplement B Attachment DA5.3-1.</u>	No <u>Yes</u> No <u>Yes</u>	Applicant needs to provide a separate technical report that includes the methods, personnel, and findings for two project sponsored surveys: 1) the pedestrian archaeological survey reported in the AFC, written by a qualified archaeologist, and 2) the new built environment windshield survey, written by a qualified architectural historian. Report contents for the archaeological part of the report must be those specified by the ARMR format, including a 1:24,000 map showing survey coverage.
Appendix B (g) (2) (C) cont.	Information included in the technical report shall also be provided in the Application for Certification, except that confidential information (archaeological sites or areas of religious significance) shall be submitted under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq. At a minimum, the technical report shall include the following:	AFC includes tech report data, unless confidential: <u>Appendix 5.3B (Confidential Filing), Information provided in January 9, 2009 Data Adequacy Supplement B, Attachment DA5.3-1</u>	No <u>Yes</u>	Applicant needs to incorporate into AFC Section 5.3 non-confidential information on any new archaeological and/or architectural resources identified from the new built environment survey.
Appendix B (g) (2) (C) (i)	The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);	Summary: Vol. 1, pp. 5.3-2–5.3-5, lit-search results: Vol. 1, pp. 5.3-5–5.3-6, 5.3-9	Yes Yes	

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Appendix B (g) (2) (C) (ii)	The survey procedures and methodology used to identify cultural resources and a discussion of the cultural resources identified by the survey;	Archaeological methodology: Vol. 1, pp. 5.3-9-5.3-10 Built-environment survey methodology: <u>Information provided in January 9, 2009 Data Adequacy Supplement B, Attachment DA5.3-1</u>	Yes <u>No</u> <u>Yes</u>	Applicant needs to have a qualified architectural historian include the methods and finding from the new survey in the new built environment survey report.
Appendix B (g) (2) (C) (iii)	Copies of all new and updated DPR 523(A) forms. If a cultural resource may be impacted by the project, also include the appropriate DPR 523 detail form for each such resource;	Archaeology forms: Built-environment forms: <u>Information provided in January 9, 2009 Data Adequacy Supplement B Attachment DA5.3-1, Appendix B</u>	N/A <u>No</u> <u>Yes</u>	Applicant needs to provide copies of DPR 523 forms for any new built environment resources identified in the new built environment survey.
Appendix B (g) (2) (C) (iv)	A map at a scale of 1:24,000 U.S. Geological Survey quadrangle depicting the locations of all previously known and newly identified cultural resources compiled through the research required by Appendix B (g)(2)(B) and Appendix B (g)(2)(C) (ii); and	Archaeology and built-environment map: Vol. 1, p. 5.3-7, <u>Appendix 5.3B (Confidential Filing), p.3; Information provided in January 9, 2009 Data Adequacy Supplement B, Attachment DA5.3-1, p.3.</u>	<u>No</u> <u>Yes</u>	Applicant needs to provide a revised copy of the USGS 7.5' quadrangle map(s) of the literature search area, under confidential cover, depicting the locations of all known archaeological and architectural resources previously identified and all new built environment resources identified in the new built environment survey.

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Appendix B (g) (2) (C) (v)	The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report.	Names/quals for archaeologists: Vol. 1, p. 5.3-9 Names/quals for architectural historians: <u>Information provided in January 9, 2009 Data Adequacy Supplement B, Attachment DA5.3-1, Appendix A.</u>	Yes No <u>Yes</u>	Applicant needs to add the name(s) and qualifications of person(s) doing the new built environment survey.
Appendix B (g) (2) (D)	Provide a copy of your request to the Native American Heritage Commission (NAHC) for information on Native American sacred sites and lists of Native Americans interested in the project vicinity, and copies of any correspondence received from the NAHC. Notify the Native Americans on the NAHC list about the project, including a project description and map. Provide a copy of all correspondence sent to Native American individuals and groups listed by the NAHC and copies of all responses. Provide a written summary of any oral responses.	NAHC request: Vol. 2, Appendix 5.3C (Confidential filing) NAHC response: Vol. 2, Appendix 5.3C (Confidential filing) Letters sent to Native Americans: Vol. 2, Appendix 5.3C (Confidential filing) Responses from Native Americans: Vol. 2, Appendix 5.3C (Confidential filing) Summary of oral responses from Native Americans:	Yes Yes Yes Yes N/A	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: Rod Jones

DATA ADEQUACY WORKSHEET

Project: CPV Vaca Station
 Docket: 08-AFC-11

Revision No. 1 Date January 23, 2009
 Technical Staff: Bright Eastman
 Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (E)	Include in the discussion of proposed mitigation measures required by subdivision (g)(1):	-	-	-
Appendix B (g) (2) (E) (i)	A discussion of measures proposed to mitigate project impacts to known cultural resources;	Mitigation measures for known impacts: Vol. 1 p. 5.3-13, <u>Information provided in January 9, 2009 Data Adequacy Supplement B Attachment DA5.3-1, p.8</u>	No Yes	Applicant needs to incorporate mitigation measures for impacts to the integrity of setting of new built environment resources; if any are identified in the required new built environment survey.
Appendix B (g) (2) (E) (ii)	A set of contingency measures proposed to mitigate potential impacts to previously unknown cultural resources and any unanticipated impacts to known cultural resources; and	Contingency mitigation measures: Vol. 1, pp. 5.3-13–5.3-15	Yes	
Appendix B (g) (2) (E) (iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural resources.	Worker education: Vol. 1, 5.3-14	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Tables identifying applicable LORS: Vol. 1, Table 5.3-3, p. 5.3-16 Explicitly referenced pages: Vol. 1, Table 5.3-3, p. 5.3-16 Discussion of applicability of LORS: Vol. 1, pp. 5.3-15–5.3-19	Yes Yes Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: Rod Jones

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 Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Tables identifying agencies: Vol. 1, Table 5.3.6, p. 5.3-20	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Official within each agency who will serve as a contact person for the agency: Vol. 1, Table 5.3.6, p. 5.3-20	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Schedule indicating when outside permits will be obtained: Vol. 1, p. 5.3-20	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Rod Jones

DATA ADEQUACY WORKSHEET

Project: CPV Vaca Station
 Docket: 08-AFC-11

Revision No. 1 Date January 23, 2009
 Technical Staff: Robert Fiore
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Page 5.6-1, Section 5.6.1.1 Pages 5.6-1,2,8,17,21, Sections 5.6.1.1, 5.6.1.2, 5.6.1.3.3, 5.6.2.2 and Section 5.6.3 Page 5.6-18, Sections 5.6.2.2.3, 5.6.2.2.4 and 5.6.2.2.5	Yes	
Appendix B (g) (3) (A)	A discussion of existing land uses and current zoning at the site, land uses and land use patterns within one mile of the proposed site and within one-quarter mile of any project-related linear facilities. Include:	Pages 5.6-1, 2 and 8, Sections 5.6.1.1, 5.6.1.2 and 5.6.1.3.3 Figure 5.6-1 and 5.6-2	Yes	
Appendix B (g) (3) (A) (i)	An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;	Pages 5.6-1,2 and 8, Sections 5.6.1.1, 5.6.1.2 and 5.6.1.3.3 Figures 5.6-1 and 5.6-2	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any recent or proposed zone changes and/or general plan amendments; noticed by an elected or appointed board, commission, or similar entity at the state or local level;	Pages 5.6-14,15 and 16, Sections 5.6.1.4	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Rod Jones

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Project: CPV Vaca Station
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 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (A) (iii)	Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and	Pages 5.6-14,15 and 16, Sections 5.6.1.4	Yes	
Appendix B (g) (3) (A) (iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Figures 5.6-1, 5.6-2, 5.6-3 and 5.6-4	Yes	
Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed project with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agencies. The discussion shall identify the need, if any, for land use decisions by another public agency or as part of the commission's decision that would be necessary to make the project conform to adopted federal, state, regional, or local coastal plans, land use plans, or zoning ordinances. Examples of land use decisions include: general plan amendments, zoning changes, lot line adjustments, parcel mergers, subdivision maps, Agricultural Land Conservation Act contracts cancellation, and Airport Land Use Plan consistency determinations.	Page 5.6-17,18,19,20, and 21 Sections 5.6.2.2.1, 5.6.2.2.2 and 5.6.2.3	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Rod Jones

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Project: CPV Vaca Station
 Docket: 08-AFC-11

Revision No. 1 Date January 23, 2009
 Technical Staff: Robert Fiore
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (C)	A discussion of the legal status of the parcel(s) on which the project is proposed. If the proposed site consists of more than one legal parcel, describe the method and timetable for merging or otherwise combining those parcels so that the proposed project, excluding linears and temporary laydown or staging area, will be located on a single legal parcel. The merger need not occur prior to a decision on the Application but must be completed prior to the start of construction.	Page 5.6-1, Section 5.6.1.1	Yes	
Appendix B (g) (3) (D)	A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:	Figure 5.6-2 Page 5.6-1 and 2, Section 5.6.1.2	Yes	
Appendix B (g) (3) (D) (i)	Crop types, irrigation systems, and any special cultivation practices;	<u>Information provided in January 9, 2009 Data Adequacy Supplement B, Section 5.6, page 18, No. 14</u>	No Yes	Please provide crop types, irrigation systems and cultivation practices.
Appendix B (g) (3) (D) (ii)	Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the California Department of Conservation; and	Figure 5.6-2 Page 5.6-1 and 2, Section 5.6.1.2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Rod Jones

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 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (D) (iii)	Direct, indirect, and cumulative effects on agricultural land uses. If the proposed site or related facilities are subject to an Agricultural Land Conservation contract, provide a written copy and a discussion of the status of the expiration or canceling of such contract.	Page 5.6-18, Sections 5.6.2.2.3, 5.6.2.2.4 and 5.6.2.2.5	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Pages 5.6-18 through 23, Sections 5.6.2.3 and 5.6.5.3 Tables 5.6-5 and 5.6-6	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Pages 5.6-23 and 24, Section 5.6.6 Table 5.6-7	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Rod Jones

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Project: CPV Vaca Station
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 Technical Staff: Robert Fiore
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Pages 5.6-23 and 24, Section 5.6.6 Table 5.6-7	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Page 5.6-24, Section 5.6.7	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Noise
 Project Manager: Rod Jones

DATA ADEQUACY WORKSHEET

Project: CPV Vaca Station
 Docket: 08-AFC-11

Revision No. 1 Date January 23, 2009
 Technical Staff: Shahab Khoshmashrab
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 5.7.2, 5.7.3, 5.7.5	Yes	
Appendix B (g) (4) (A)	A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area potentially impacted by the proposed project is that area where, during either construction or operation, there is a potential increase of 5 dB(A) or more, over existing background levels.	Figure 5.7-1	Yes	

Adequacy Issue: Adequate X Inadequate _____
 Technical Area: Noise
 Project Manager: Rod Jones

DATA ADEQUACY WORKSHEET

Project: CPV Vaca Station
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Revision No. 1 Date January 23, 2009
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 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for a lesser duration at the applicant's discretion, preferably during the same 25-hour period. The results of the noise level measurements shall be reported as hourly averages in Leq (equivalent sound or noise level), Ldn (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L10, L50, and L90 values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported in units of dB(A).	§ 5.7.2.2 Table 5.7-3 <u>The missing information will be requested via a data request.</u>	No <u>Yes</u>	The ambient noise survey described in the AFC was conducted at only one location, the southern boundary of the project site. Please conduct an ambient noise measurement at each of the three residential receptors identified in the AFC Section 5.7.2.1 as being located approximately 800 feet to the southeast, 1,900 feet to the north, and 1,600 feet to the east of the project site. Please measure the ambient noise levels at these locations continuously from 10:00 p.m. to 7:00 a.m., and again during the daytime hours for a period of at least one hour.
Appendix B (g) (4) (C)	A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.	§§ 5.7.3.3.3, 5.7.3.3.4	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Noise
 Project Manager: Rod Jones

DATA ADEQUACY WORKSHEET

Project: CPV Vaca Station
 Docket: 08-AFC-11

Revision No. 1 Date January 23, 2009
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 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (D)	An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project.	§§ 5.7.3.2.1, 5.7.3.3.3	Yes	
Appendix B (g) (4) (E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.	§§ 5.7.3.2.3, 5.7.3.3.1 Tables 5.7-4, 5.7-5, 5.7-6	Yes	
Appendix B (g) (4) (F)	The audible noise from existing switchyards and overhead transmission lines that would be affected by the project and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines.	§ 5.7.3.3.2	Yes	

Adequacy Issue: Adequate X Inadequate _____
 Technical Area: Noise
 Project Manager: Rod Jones

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 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	§ 5.7.6 Table 5.7-9	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	§ 5.7.8	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	§ 5.7.7	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Noise
 Project Manager: Rod Jones

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	§ 5.7.8	Yes	

Adequacy Issue: Adequate X Inadequate _____
 Technical Area: Traffic and Transportation
 Project Manager: Rod Jones

DATA ADEQUACY WORKSHEET

Project: CPV Vaca Station
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 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 5.12-1,2,7,15,17,18,19,21 and 22 Sections 5.12.1.1, 5.12.1.2, 5.12.1.2.1, 5.12.1.3, 5.12.1.5, 5.12.2, 5.12.2.1.1, 5.12.2.1.2, 5.12.2.1.3, 5.12.2.2, 5.12.3 and 5.12.4	Yes	
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	Pages 5.12-1,2,7,16,17 and 32 Sections 5.12.1.1, 5.12.1.1.1, 5.12.1.1.2, 5.12.1.1.3, 5.12.1.1.4, 5.12.1.1.5, 5.12.1.1.6, 5.12.1.1.7, 5.12.1.4.2, 5.12.1.7, 5.12.1.8 and 5.12.5.3 Figure 5.12-1	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Rod Jones

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (B)	If the proposed project including any linear facility is to be located within 20,000 feet of an airport runway that is at least 3,200 feet in actual length, or 5,000 feet of a heliport (or planned or proposed airport runway or an airport runway under construction, that is the subject of a notice or proposal on file with the Federal Aviation Administration), discuss the project's compliance with the applicable sections of the current Federal Aviation Regulation Part 77 – Objects Affecting Navigable Airspace, specifically any potential to obstruct or impede air navigation generated by the project at operation; such as, a thermal plume, a visible water vapor plume, glare, electrical interference, or surface structure height. The discussion should include a map at a scale of 1:24,000 that displays the airport or airstrip runway configuration, the proposed power plant site and related facilities.	<u>AFC Page 3-12, Section 3.4.3</u>	No Yes	Please clarify if the proposed project including any linear facility is to be located within 20,000 feet of an airport runway that is at least 3,200 feet in actual length, or 5,000 feet of a heliport (or planned or proposed airport runway or an airport runway under construction, that is the subject of a notice or proposal on file with the Federal Aviation Administration). If there are proposed power plant site and related facilities within 20,000 feet, as stated, please provide a map at a scale of 1:24,000 that displays the airport or airstrip runway configurations.
Appendix B (g) (5) (C)	An identification, on topographic maps at a scale of 1:24,000, and a description of existing and planned roads, rail lines, (including light rail), bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	Pages 5.12-1,2 and 16 Section Sections 5.12.1.1.1, 5.12.1.1.2, 5.12.1.1.3, 5.12.1.1.4, 5.12.1.1.5, 5.12.1.1.6, 5.12.1.1.7, 5.12.1.4.1 Figure 5.12-2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Rod Jones

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (C) (i)	Road classification and design capacity;	Table 5.12-2	Yes	
Appendix B (g) (5) (C) (ii)	Current daily average and peak traffic counts;	Table 5.12-2	Yes	
Appendix B (g) (5) (C) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Table 5.12-2 Table 5.12-4 Table 5.12-6 Table 5.12-7	Yes	
Appendix B (g) (5) (C) (iv)	Weight and load limitations;	Pages 5.12-15 and 16 Section 5.12.1.3	Yes	
Appendix B (g) (5) (C) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Page 5.12-1,2,7,8,20 and 21 Section Sections 5.12.1.1.1, 5.12.1.1.2, 5.12.1.1.3, 5.12.1.1.4, 5.12.1.1.5, 5.12.1.1.6, 5.12.1.1.7 Tables 5.12-2, 5.12-6 and 5.12-7 Figures 5.12-3 and 5.12-4	Yes	
Appendix B (g) (5) (C) (vi)	An identification of any road features affecting public safety.	<u>Information provided in January 9, 2009 Data Adequacy Supplement B, Section 5.12, page 20. No. 17</u>	No Yes	Please provide information on any road features affecting public safety or clarify if none exist.

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Rod Jones

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (D)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified in subsection (g)(5)(C). Also include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(C).	Pages 5.12-15,16,18,19, 20 Sections 5.12.1.3, 5.12.1.4.2, 5.12.2.1.1, 5.12.2.1.2, 5.12.2.1.4 Tables 5.12-2, 5.12-6 and 5.12-7 Figures 5.12-3 and 5.12-4	Yes	
Appendix B (g) (5) (E)	A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.	<u>Information provided in January 9, 2009 Data Adequacy Supplement B, Section 5.12, page 21, No.18</u>	No Yes	Please provide a discussion of project-related hazardous materials to be transported during construction and operation, specifically pertaining to estimated quantities and estimated number of trips. Also, please identify any transportation hazards associated with such transport.
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Pages 5.12-28,31 and 32 Sections 5.12.5, 5.12.5.1, 5.12.5.2, 5.12.5.3 Table 5.12-8	Yes	

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Pages 5.1-33 and 34 Section 5.12.7 Table 5.12-10	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Pages 5.1-33 Section 5.12.6 Table 5.12-9	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Pages 5.1-33 and 34 Section 5.12.7 Table 5.12-10	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Rod Jones

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Project: CPV Vaca Station
 Docket: 08-AFC-11

Revision No. 1 Date January 23, 2009
 Technical Staff: Laiping Ng
 Technical Senior: Mark Hesters

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Appendix B (h) (2) (A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	Section 1.1 Page 1-1	Yes	
Appendix B (h) (2) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.	Section 2.1.14 Page 2-32 Section 3.2 Page 3-1 to 3-2	Yes	

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Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators.	Section 3.2 Page 3-1 to 3-2 Figure 2.1-5 Figure 3.2-2 <u>Information provided in January 9, 2009 Data Adequacy Supplement B, Section 3.0</u> <u>Figure 3.0-1</u> <u>Figure 3.0-2</u>	No <u>Yes</u>	<ol style="list-style-type: none"> 1. Please provide detail drawings for the take-off structures required for interconnecting the one-mile long generation tie-lines from the power plant to the new switchyard. 2. Please provide detail drawings for the dead-end structure and 230 kV transmission poles required for the transmission lines to loop-in and loop-out of the new project switchyard. 3. Please provide conductor type, size and length of the loop-in and loop-out transmission circuits which interconnect the new project switchyard with the Vaca-Dixon to Lambie and Vaca-Dixon to Peabody transmission lines. 4. Please resubmit Figure 3.2-2, Energy Facility One-Line Diagram. Show all equipment ratings including bay arrangement of the breakers, disconnect switches, buses, and generation tie-lines, etc. which are required for the addition of the project (information provided in the AFC and the System Impact Study is inconsistent).

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 Technical Area: Transmission System Design
 Project Manager: Rod Jones

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Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.	Section 2.1.14 Page 2-32 Section 3.2.1 Page 3-1 to 3-2	Yes	
Appendix B (b) (2) (E)	<p>A completed System Impact Study or signed System Impact Study Agreement with the California Independent System Operator and proof of payment. When not connecting to the California Independent System Operator controlled grid, provide the executed System Impact Study agreement and proof of payment to the interconnecting utility.</p> <p>If the interconnection and operation of the proposed project will likely impact an transmission system that is not controlled by the interconnecting utility (or California Independent System Operator), provide evidence of a System Impact Study or agreement and proof of payment (when applicable) with/to the impacted transmission owner or provide evidence that there are no system impacts requiring mitigation.</p>	Section 3.3 Page 3-2, 3-9 Appendix 3A System Impact Study	Yes	

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 Project Manager: Rod Jones

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Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 3.5 Page 3-13 to 3-14	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 3.5.7 Page 3-16	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	NA		

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Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 3.3 Page 3-9	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Visual Resources
 Project Manager: Rod Jones

DATA ADEQUACY WORKSHEET

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 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pg. 5.13-1 through 5.13-2; pg. 5.13-14 through 5.13-29; Section numbers 5.13.1 through 5.13.2.3.7	Yes	
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the proposed project site and the proposed routes for any project-related linear facilities. Include:	Pg. 5.13-1 through 4, Sections 5.13.2.1 through 5.13.1.4	Yes	
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 that depict directions from which the project would be seen, the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(C); and	Figure 5.13-1	Yes	
Appendix B (g) (6) (A) (ii)	Description of the existing visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities, including existing water vapor plumes, above-ground electrical transmission lines, and nighttime lighting levels in the project viewshed.	Pg. 5.13-2 section 5.13.1.4 through page 5.13-22; Section 5.13.2.4.5	Yes	

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Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that would be affected by the proposed project. For projects proposed to be located within the coastal zone, the assessment should also describe how the proposed project would be sited to protect views to and along the ocean and scenic coastal areas, would minimize the alteration of natural land forms, would be visually compatible with the character of surrounding areas.	Pg. 5.13-21 through 24; section 5.13.2.4	Yes	
Appendix B (g) (6) (C)	In consultation with Energy Commission staff, identify: i) any designated scenic roadways or scenic corridors and any visually sensitive areas that would be affected by the proposed project, including recreational and residential areas; and ii) the locations of the key observation points to represent the most critical viewing locations from which to conduct detailed analyses of the visual impacts of the proposed project. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. Also identify any major public roadways and trails of local importance that would be visually impacted by the project and indicate the types of travelers (e.g., local residents, recreationists, workers, commuters, etc.) and the approximate number of vehicles, bicyclists, and/or hikers per day.	Pg. 5.13-23 through 5.13-24; section 5.13.2.5	Yes	

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Appendix B (g) (6) (D)	A table providing the dimensions (height, length, and width, or diameter) and, proposed color(s), materials, finishes, patterns, and other proposed design characteristics of each major component visible from off the project site, including any project-related electrical transmission line and/or offsite aboveground pipelines and metering stations.	Pg. 5.13-15; Table 5.13-2; section 5.13.2.3.1 through 5.13.2.3.3	Yes	

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Appendix B (g) (6) (E)	Provide the cooling tower and heat recovery steam generator (HRSG) exhaust design parameters that affect visible plume formation. For the cooling tower, data shall include heat rejection rate, exhaust temperature, exhaust mass flow rate, liquid to gas mass flow ratio, and, if the tower is plume-abated, moisture content (percent by weight) or plume-abated fogging curve(s). The parameters shall account for a range of ambient conditions (temperature and relative humidity) and proposed operating scenarios, such as duct firing and shutting down individual cells. For the heat recovery steam generator exhausts, data shall include moisture content (percent by weight), exhaust mass flow rate, and exhaust temperature. The parameters must correspond to full-load operating conditions at specified ambient conditions, and shall account for proposed operating scenarios, such as power augmentation (i.e., evaporative coolers, inlet foggers, or steam injection) and duct firing, or proposed HRSG visible plume abatement, such as the use of an economizer bypass. For simple-cycle projects, provide analogous data for the exhaust stack(s).	Pg. 5.13-15; section 5.13.2.3.1; Appendix 5.1A, Emission and Ops Parameters; Table 5.1A-4.	Yes	

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Appendix B (g) (6) (F)	Provide: i) full-page color photographic reproductions of the existing site, and ii) full-page color simulations of the proposed project at life-size scale when the picture is held 10 inches from the viewer's eyes, including any project-related electrical transmission lines, in the existing setting from each key observation point. If any landscaping is proposed to comply with zoning requirements or to mitigate visual impacts, include the landscaping in simulation(s) representing sensitive area views, depicting the landscaping five years after installation; and estimate the expected time until maturity is reached.	<u>Information provided in January 9, 2009 Data Adequacy Supplement B, Figure 5.13-2 through 5.13-4 and 5.13-5 through 5.13-6.</u>	No Yes	Please provide full-color photographic reproductions of the existing site, including laydown and parking areas
Appendix B (g) (6) (G)	An assessment of the visual impacts of the project, including light, glare, and any modeling of visible plumes. Include a description of the method and identify any computer model used to assess the impacts. Provide an estimate of the expected frequency and dimensions (height, length, and width) of the visible cooling tower and/or exhaust stack plumes. Provide the supporting assumptions, meteorological data, operating parameters, and calculations used.	Pg. 5.15-9 and Pg. 5.15-14 through 5.15-16, section 5.15.3.2; Appendix 5.1A	Yes	

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Appendix B (g) (6) (H)	If any landscaping is proposed to reduce the visual impacts of the project, provide a conceptual landscaping plan at a 1:40 scale (1"=40"). Include information on the type of plant species proposed, their size, quantity, and spacing at planting, expected heights at 5 years and maturity, and expected growth rates.	Figure 5.13-7 and Figure 5.13-8	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table 5.13-3; Table 5.13-4; Table 5.13-5; Table 5.13-6	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 5.13.7	Yes	

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Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 5.13.7	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	NA	NA	