

# Memorandum

**Date:** June 29, 2009  
**Telephone:** (916) 654-4996

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

<b>DOCKET</b>	
<b>09-AFC-2</b>	
DATE	<u>JUN 29 2009</u>
RECD	<u>JUN 29 2009</u>

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

**Subject: ALMOND 2 POWER PLANT PROJECT, DATA ADEQUACY RECOMMENDATION (09-AFC-2)**

On May 11, 2009, Turlock Irrigation District (TID) submitted an Application for Certification (AFC) for the proposed Almond 2 Power Plant (A2PP) located on a 4.6-acre parcel adjacent to the existing 48 megawatt (MW) TID Almond Power Plant (A1PP).

On June 5, 2009, the Energy Commission determined that the Almond 2 Power Plant 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 6 of the 23 technical areas reviewed: Cultural Resources, Land Use, Socioeconomics, Soils, Transmission System Design, and Water Resources.

On June 9, 2009, TID filed a Supplement to the AFC containing additional information for review. Staff has completed their review of the supplemental information and believes that the AFC now meets the listed requirements in all 6 previously deficient technical areas, and believes the AFC is now complete. Attached is a summary table and the revised data adequacy worksheets for the technical disciplines previously determined to be data inadequate, and reflecting that the supplemental information submitted by TID completes the AFC.

At the Energy Commission's July 1, 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 Almond 2 Power Plant Project. If you have any questions, please contact Felicia Miller, Project Manager at (916) 654-4640.

Attachment

**Attachment A**  
**Overview of Energy Commission Staff's**  
**Data Adequacy Determination**  
**Almond Power Plant Project**  
**09-AFC-2**

Technical Area	Attachment B Page No.	Adequate ?
CULTURAL RESOURCES.....	4	YES
LAND USE.....	12	YES
SOCIOECONOMICS.....	17	YES
SOILS.....	22	YES
TRANSMISSION SYSTEM DESIGN.....	25	YES
WATER RESOURCES.....	28	YES

**ATTACHMENT B**

**ENERGY COMMISSION STAFF'S  
Revised Data Adequacy Worksheets**

**Almond 2 Power Plant Project  
09-AFC-2**

**June 29, 2009**

Adequacy Issue: Adequate **X** Inadequate \_\_\_\_\_  
 Technical Area: **Cultural Resources**  
 Project Manager: Felicia Miller

**DATA ADEQUACY WORKSHEET**

Revision No. 1 Date June 29, 2009  
 Project: Almond 2 Power Plant Technical Staff: Beverly E. Bastian  
 Docket: 09-AFC-2 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) (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, Sec. 5.3, p. 5.3-2  impacts due to project: Vol. 1, Sec. 5.3, pp. 5.3-32–5.3-33  mitigation measures to known impacts: Vol. 1, Sec. 5.3, pp. 5.3-34–5.3-36  effectiveness of the proposed measures  any monitoring plans proposed to verify the effectiveness of the mitigation	Yes  Yes  Yes  N/A  N/A	
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, Sec. 5.3, pp. 5.3-3–5.3-10	Yes	

Adequacy Issue: Adequate  Inadequate   
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 Technical Senior: Rick York

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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 number 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, Sec. 5.3, pp. 5.3-10–5.3-19</p> <p>Cultural resources listed under a city or county ordinance: <u>DA Supplement A, Sec. 5.3, p. 5</u></p> <p>Cultural resources recognized by local societies: Vol. 1, Sec. 5.3, p. 5.3-32</p> <p>Names/quals for lit searchers/directors: Vol. 2, App. 5.3D</p> <p>DPR523s for known resources: Vol. 2, App. 5.3C, App. A</p> <p>Map of lit search area with past surveys and CHRIS #: <u>Att. DA5.3-1</u></p> <p>CHRIS reports: Vol. 2, App. 5.3C</p>	<p>Yes</p> <p><del>No</del> Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p><del>No</del> Yes</p> <p>Yes</p>	<p><del>Please provide evidence that there are no known cultural resources listed under a city or county ordinance.</del></p> <p><del>As submitted (Vol. 2, Appendix 5.3E, Figures 5.3-1A–5.3-1D), this map series shows only the applicant's survey coverage. The series needs to show the coverages and identifying report numbers of all previous surveys whose coverage was wholly or partly within .25 mile of the area surveyed for the project, or which report on any archaeological excavations or architectural surveys within the literature search area.</del></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 districts that appear to be older than 45 years or that are exceptionally significant, whatever their age.</p>	<p>Names/quals for archaeological surveyors or directors: Vol. 2, App. 5.3D</p> <p>Names/quals for historical architecture surveyors or directors: Vol. 2, App. 5.3D</p> <p>Survey coverage, archaeology: Vol. 2, App. 5.3B, Figure 1A-D</p> <p>Survey coverage, architecture: Vol. 2, App. 5.3B, Figure 1A-D</p> <p>Tech report for new archaeological survey: Vol. 2, App. 5.3B</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	

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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
	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).	Technical report for new architectural survey: Vol. 2, App. 5.3B	Yes	
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:	Vol. 1, Sec. 5.3, pp. 5.3-1–5.3-43	Yes	
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. 2, App. 5.3B, pp. 2–9  Literature search results: Vol. 2, App. 5.3B, pp. 9–14	Yes  Yes	
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. 2, App. 5.3B, pp. 14–16  Historical architecture methodology: Vol. 2, App. 5.3B, pp. 14–18	Yes  Yes	

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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;	Archaeological forms:  Architecture forms: Vol. 2, App. 5.3B, App. A	N/A  <del>No</del> Yes	Add a location map to the DPR 523 forms provided in Vol. 2, Appendix 5.3B, Appendix A, to complete the recordation for each resource, and resubmit.
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 architecture map: <u>DA Supplement A</u>	<del>No</del> Yes	Plot and label the locations of all previously known and newly identified cultural resources on a map or maps (at a scale of 1:24,000/U.S.G.S. topographic quadrangle) and submit under confidentiality, if archaeological site locations are depicted.
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. 2, App. 5.3D  Names/quals for architectural historians: Vol. 2, App. 5.3D	Yes  Yes	

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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, App. 5.3A  NAHC response: Vol. 2, App. 5.3A  Letters sent to Native Americans: Vol. 2, App. 5.3A  Native American consultation: Vol. 2, App. 5.3A  Summary of oral responses from Native Americans: Vol. 2, App. 5.3A	Yes  Yes  Yes  Yes	
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, Sec. 5.3, p. 5.3-34	Yes	
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, Sec. 5.3, pp. 5.3-34–5.3-36	Yes	

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Appendix B (g) (2) (E) (iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural resources.	Worker education programs: Vol. 1, Sec. 5.3, p. 5.3-35	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, Sec. 5.3, Table 5.3-4, p. 5.3-37  Explicitly referenced pages: Vol. 1, Sec. 5.3, Table 5.3-4, p. 5.3-37  Discussion of applicability of LORS: Vol. 1, Sec. 5.3, Table 5.3-4, pp. 5.3-37–5.3-40	Yes  Yes  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.	Tables identifying agencies: Vol. 1, Sec. 5.3, Table 5.3-5, pp. 5.3-40–5.3-41	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, Sec. 5.3, Table 5.3-4, pp. 5.3-40–5.3-41	Yes	

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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.	Schedule indicating when outside permits will be obtained: Vol. 1, Sec. 5.3, p. 5.3-41	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Land Use  
 Project Manager: Felicia Miller

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Revision No. 1 Date June 29, 2009  
 Project: Almond 2 Power Plant Technical Staff: Robert Fiore  
 Docket: 09-AFC-2 Technical Senior: Amanda Stennick

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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.	Pages 5.6-1 through 5.6-63, Sections 5.6.1 through 5.6.8	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 5.6-21 through 5.6-44, Section 5.6.1.3 through 5.6.1.3.5 Figures 5.6-3A, 5.6-3B, 5.6-3C, 5.6-3D, 5.6-4A, 5.6-4B, 5.6-4C, 5.6-4D and 5.6-5A	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;	<u>AFC Supplement A, Page 15, Section 5.6</u>	<del>No</del> Yes	<del>Please identify whether any natural resource protection or extraction, or cultural resource designated areas exist within the project vicinity.</del>
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 5.6-44 through 5.6-49, Sections 5.6.1.3.4, 5.6.1.3.5 and 5.6.2 Figure 5.6-5A	Yes	

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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 5.6-44 through 5.6-49, Section 5.6.2  Table 5.6A-1 and 5.6-A-2, Appendix 5.6A	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 5.6-1A through 5.6-5A	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.	<u>AFC Supplement A, Pages 15-16, Section 5.6</u>	<del>No</del> Yes	<del>Please provide a discussion regarding compatibility of the project with present and expected land uses.</del>

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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.	Appendix 1A, Title Report	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:	Pages 5.6-12 through 5.6-21, Section 5.6.1.2  Figures, 5.6-2A through 5.6-2D	Yes	
Appendix B (g) (3) (D) (i)	Crop types, irrigation systems, and any special cultivation practices;	<u>AFC Supplement A, Page 16, Section 5.6</u>	<del>No</del> <u>Yes</u>	<del>Please identify crop types, irrigation systems and any special cultivation practices.</del>
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	Pages 5.6-12 through 5.6-21, Sections 5.6.1.2 Figures 5.6-2A through 5.6-2D Pages 5.6-51 through 5.6-52, Sections 5.6.3.2.3 and 5.6.3.2.4	Yes	

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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.	Pages 5.6-12 through 5.6-21, Sections 5.6.1.2 Figures 5.6-2A through 5.6-2D Pages 5.6-51 through 5.6-52, Sections 5.6.3.2.3 and 5.6.3.2.4 Pages 5.6-61 and 5.6-62, Sections 5.6.4.4 and 5.6.5	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 5.6-53 through 5.6-58, Sections 5.6.3.3, Table 5.6-6 Pages 5.6-62 through 5.6-63, Sections 5.6.6, 5.6.6.1, 5.6.6.2 and 5.6.6.3, Table 5.6-7	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.	Page 5.6-64, Section 5.6.7, Table 5.6-8	Yes	

Adequacy Issue: Adequate  Inadequate

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Revision No. 1 Date June 29, 2009

Technical Area: Land Use

Project: Almond 2 Power Plant

Technical Staff: Robert Fiore

Project Manager: Felicia Miller

Docket: 09-AFC-2

Technical Senior: Amanda Stennick

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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.	Page 5.6-64, Section 5.6.7, Table 5.6-8	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 5.6-64, Section 5.6.8, Table 5.6-9	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Socioeconomics  
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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.	Pages 5.10-1 through 5.10-21, sections 5.10.2 through 5.10.6	Yes	
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:	Pages 5.10-1 through 5.10-13, Sections 5.10.2.1 through 5.10.2.7.3	Yes	
Appendix B (g) (7) (A) (i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	Pages 5.10-7 through 5.10-10, Sections 5.10.2.3 through 5.10.2.4	Yes	
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	Pages 5.10-1 through 5.10-7, Sections 5.10.2.1 and 5.10.2.2, Tables 5.10-1, 5.10-2 and 5.10-3	Yes	
Appendix B (g) (7) (A) (iii)	Existing unemployment rates;	Pages 5.10-7 and 5.10-8, Section 5.10.2.3 Table 5.10-4 and 5.10-5	Yes	
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	Pages 5.10-13 through 5.10-15, Section 5.10.3.3.1, Tables 5.10-9 and 5.10-11	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing and current vacancy rate; and	Pages 5.10-2 through 5.10-7, Section 5.10.2.2, Table 5.10-3	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 1 Date June 29, 2009

Technical Area: Socioeconomics

Project: Almond 2 Power Plant

Technical Staff: Robert Fiore

Project Manager: Felicia Miller

Docket: 09-AFC-2

Technical Senior: Amanda Stennick

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes for the duration of the project schedule.	<u>AFC Supplement A, Page 17, Section 5.10</u>	No Yes	<del>Please provide details on water and wastewater capacities for conveyance and at the treatment plants and if there is an expected impact cost to improve services, if necessary. Also, please identify if any water and waste water related assessment districts or community facilities districts are established and if there is a potential effect.</del> Please provide details on the Fire District and Emergency Response CFD's.
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project (note year of estimate, model, if used, and appropriate sources), including:	Pages 5.10-12 through 5.10-20, Sections 5.10.3 through Section 5.10.3.4.8	Yes	
Appendix B (g) (7) (B) (i)	An estimate of the number of workers to be employed each month by craft during construction, and for operations, an estimate of the number of permanent operations workers during a year;	Pages 5.10-13 through 5.10-15, Section 5.10.3.3.1, Table 5.10-9 Page 5.10-18, Section 5.10.3.4.1	Yes	
Appendix B (g) (7) (B) (ii)	An estimate of the percentage of non-local workers who will relocate to the project area to work on the project;	Page 5.10-15, Section 5.10.3.3.1	Yes	
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Page 5.10-18, Section 5.10.3.4.2	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	Page 5.10-18, Section 5.10.3.4.3	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Socioeconomics  
 Project Manager: Felicia Miller

**DATA ADEQUACY WORKSHEET**

Revision No. 1 Date June 29, 2009  
 Technical Staff: Robert Fiore  
 Technical Senior: Amanda Stennick

Project: Almond 2 Power Plant  
 Docket: 09-AFC-2

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water, and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. Include response times to hospitals and for police, and emergency services. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operating phases;	<u>AFC Supplement A, Pages 17-18, Section 5.10</u>	No Yes	<del>Please identify if fees collected from assessment or community facility districts; or if the additional fees charged by the outside water contractor; or if the Ceres Wastewater Treatment Plant fees adequately cover the costs for service delivery and treatment. Please provide expected costs associated with the need for providing additional personnel for fire protection, law enforcement, emergency response and medical facilities, if necessary. Please provide potential impacts, including additional costs, on the Fire District and Emergency Response CFD's.</del>
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	Pages 5.10-19 through 5.10-20, Section 5.10.3.4.6	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and separate estimates of the total operation payroll for permanent and short-term (contract) operations employees;	Pages 5.10-16 and 5.10-18, Sections, 5.10.3.3.4 and 5.10.3.4.4	Yes	
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project;	Pages 5.10-16 and 5.10-18, Sections, 5.10.3.3.4 and 5.10.3.4.4	Yes	
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost (plant and equipment) of the project;	Page 5.10-17, Section 5.10.3.3.5	Yes	
Appendix B (g) (7) (B) (x)	An estimate of sales taxes generated during construction and separately during an operational year of the project;	Page 5.10-17, Section 5.10.3.3.5	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Socioeconomics  
 Project Manager: Felicia Miller

**DATA ADEQUACY WORKSHEET**

Revision No. 1 Date June 29, 2009  
 Project: Almond 2 Power Plant Technical Staff: Robert Fiore  
 Docket: 09-AFC-2 Technical Senior: Amanda Stennick

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (xi)	An estimate of property taxes generated during an operational year of the project; and	<u>AFC Supplement A, Page 19, Section 5.10</u>	No Yes	<del>Please provide an estimate of project property taxes during an operational year.</del>
Appendix B (g) (7) (B) (xii)	The expected direct, indirect, and induced income and employment effects due to construction, operation, and maintenance of the project.	Pages 5.10-16 through 5.10-19, Sections 5.10.3.3.4 through 5.10.3.4.5	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	Page 5.10-21 through 5.10-23, Sections 5.10.7 and 5.10.7.1 through 5.10.7.3, Table 5.10-12	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 5.10-23, Section 5.10.8, Table 5.10-13	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Socioeconomics  
 Project Manager: Felicia Miller

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Revision No. 1 Date June 29, 2009  
 Project: Almond 2 Power Plant Technical Staff: Robert Fiore  
 Docket: 09-AFC-2 Technical Senior: Amanda Stennick

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 5.10-23, Section 5.10.8, Table 5.10-13	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 5.10-24, Section 5.10.9	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Soils  
 Project Manager: Felicia Miller

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Revision No. 1 Date June 29, 2009  
 Technical Staff: Rachel Cancienne  
 Technical Senior: Paul Marshall

Project: Almond 2 Power Plant  
 Docket: 09-AFC-2

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.	Section 5.11.2.6 Section 5.11.3 Section 5.11.4	Yes	
Appendix B (g) (15) (A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:	Section 5.11.1 Table 5.11-1 Figures 5.11-1A, 1B, 1C,1D	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil;	Section 5.11.1	Yes	
Appendix B (g) (15) (A) (ii)	An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system;	Section 5.11.1.3	Yes	
Appendix B (g) (15) (A) (iii)	The location of any proposed fill disposal or fill procurement (borrow) sites; and	Appendix 5.4A Grading Plan <u>AFC Supplement A</u>	<u>Yes No</u>	<del>Figure 5.15-4 describes the proposed earthwork cut/fill volume would require a net fill of 9,680 cu-yds. Identify the source of proposed borrow material.</del>
Appendix B (g) (15) (A) (iv)	The location of any contaminated soils that could be disturbed by project construction.	Appendix 5.14B Report of Finding Soil Sampling Analysis	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Soils  
 Project Manager: Felicia Miller

**DATA ADEQUACY WORKSHEET**

Revision No. 1 Date June 29, 2009  
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 Technical Senior: Paul Marshall

Project: Almond 2 Power Plant  
 Docket: 09-AFC-2

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (15) (B)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:	Section 5.11.2	Yes	
Appendix B (g) (15) (B) (i)	The quantification of accelerated soil loss due to wind and water erosion; and	Section 5.11.2.4 Appendix 5.11A	Yes	
Appendix B (g) (15) (B) (ii)	The effect of power plant emissions on surrounding soil-vegetation systems.	Section 5.11.2.7	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	Section 5.11.5 Table 5.11-5	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 5.11.5 Section 5.11.6 Table 5.11-5 Table 5.11-6	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Soils  
 Project Manager: Felicia Miller

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Revision No. 1 Date June 29, 2009  
 Technical Staff: Rachel Cancienne  
 Technical Senior: Paul Marshall

Project: Almond 2 Power Plant  
 Docket: 09-AFC-2

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.	Section 5.11.5 Section 5.11.6 Table 5.11-5 Table 5.11-6 AFC Supplement A (Table DA5.11-1)	<u>Yes</u> No	Include: Name, address, phone number and email address (if known) for CVRWQCB and Stanislaus County Dept. of Public Works contacts.
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 5.11.7	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Transmission System Design  
 Project Manager: Felicia Miller

**DATA ADEQUACY WORKSHEET**

Revision No. 1 Date June 29, 2009  
 Technical Staff: Laiping Ng  
 Technical Senior: Mark Hesters

Project: Almond 2 Power Plant  
 Docket: 09-AFC-2

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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 to 1-2	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 Page 2-1  Section 3.1 - 3.2 Page 3-1 to 3-2	Yes	
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 3-2, 3-11 to 3-12  Section 3.2.2 Page 3-11  Figure 3.1-3A  Figure 3.1-3B	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Transmission System Design  
 Project Manager: Felicia Miller

**DATA ADEQUACY WORKSHEET**

Revision No. 1 Date June 29, 2009  
 Project: Almond 2 Power Plant Technical Staff: Laiping Ng  
 Docket: 09-AFC-2 Technical Senior: Mark Hesters

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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 3.1 Page 3-1  Section 3.2.3 Page 3-12	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Transmission System Design  
 Project Manager: Felicia Miller

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Revision No. 1 Date June 29, 2009  
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 Technical Senior: Mark Hesters

Project: Almond 2 Power Plant  
 Docket: 09-AFC-2

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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>	<p>Section 3.3 Page 3-12</p> <p><u>Data Adequacy Supplement A, Sections 3.0, Pages 3-4</u></p>	<p><u>Yes</u> No</p>	<p><del>Please provide the final System Impact Study Report. The Study should analyze the system impact with and without the project during peak and off-peak system conditions, which will demonstrate conformance or non-conformance with the utility reliability and planning criteria with the following provisions:</del></p> <ul style="list-style-type: none"> <li><del>a. Identify major assumptions in the base cases including imports to the system, major generation and load changes in the system and queue generation.</del></li> <li><del>b. Analyze system for N-0, important N-1 and critical N-2 contingency conditions and provide a list of criteria violations in a table showing the loadings before and after adding the new generation.</del></li> <li><del>c. Short circuit studies.</del></li> <li><del>d. Analyze system for Transient Stability and Post-transient voltage conditions under critical N-1 and N-2 contingencies, and provide related plots, switching data and a list for voltage violations in the studies.</del></li> <li><del>e. Provide a list of contingencies evaluated for each study.</del></li> <li><del>f. List mitigation measures considered and those selected for all criteria violations.</del></li> <li><del>g. Provide electronic copies of *.sav and *.drw PSLF files.</del></li> <li><del>h. Provide power flow diagrams (<b>MW, % loading &amp; P. U. voltage</b>) for base cases with and without the project. Power flow diagrams must also be provided for all N-0, N-1 and N-2 studies where overloads or voltage violations appear.</del></li> </ul>

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Transmission System Design  
 Project Manager: Felicia Miller

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 Technical Senior: Mark Hesters

Project: Almond 2 Power Plant  
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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) (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 3-41, 3-42	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 3.6 Page 3-44	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		
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 3-12	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 1 Date June 29, 2009

Technical Area: Water Resources

Project: Almond 2 Power Plant

Technical Staff: Rachel Cancienne

Project Manager: Felicia Miller

Docket: 09-AFC-2

Technical Senior: Paul Marshall

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.	Section 5.15.1 Section 5.15.2 Section 5.15.3 Section 5.15.4	Yes	
Appendix B (g) (14) (A)	All the information required to apply for the following permits, if applicable, including:	_____	_____	
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; National Pollutant Discharge Elimination System Permit; and/or a Section 401 Certification or Waiver from the appropriate Regional Water Quality Control Board (RWQCB);	Section 5.15.5.2 Section 5.15.2.1 Section 5.15.2.2.2 Section 5.15.2.3	Yes	
Appendix B (g) (14) (A) (ii)	Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;	Section 5.15.2.2.2 Section 5.15.5.3.1	Yes	
Appendix B (g) (14) (A) (iii)	Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	N/A	N/A	
Appendix B (g) (14) (A) (iv)	Underground Injection Control Permit(s) from the U.S. Environmental Protection Agency, California Division of Oil and Gas, and RWQCB.	N/A	N/A	

Adequacy Issue: Adequate **X** Inadequate \_\_\_\_\_  
 Technical Area: **Water Resources**  
 Project Manager: Felicia Miller

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 Technical Staff: Rachel Cancienne  
 Technical Senior: Paul Marshall

Project: Almond 2 Power Plant  
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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) (14) (B)	A detailed description of the hydrologic setting of the project. The information shall include a narrative discussion and on maps at a scale of 1:24,000 (or appropriate scale approved by staff), describing the chemical and physical characteristics of the following nearby water bodies that may be affected by the proposed project:	Section 5.15.1.1 Section 5.15.1.2 Figure 5.15-2	Yes	
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Section 5.15.1.2	Yes	
Appendix B (g) (14) (B) (ii)	Surface water bodies;	Section 5.15.1.1 AFC Supplement A (Figure DA5.15-1)	<u>Yes No</u>	<del>Section 5.15.1.4.3 identifies the TID Irrigation Canal, a surface water body, south of the A2PP Site. Identify the location of the canal on an appropriate map or provide a more detailed description of its location and distance from the site.</del>
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;	Section 5.15.1.3	Yes	
Appendix B (g) (14) (B) (iv)	Flood control facilities (existing and proposed); and	Section 5.15.2.1.4	Yes	
Appendix B (g) (14) (B) (v)	Groundwater wells within ½ mile if the project will include pumping.	Section 5.15.1.2 Section 5.15.1.4.2	Yes	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	_____	_____	
Appendix B (g) (14) (C) (i)	Source(s) of the primary and back-up water supplies and the rationale for their selection;	Section 5.15.1.4.1	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 1 Date June 29, 2009

Technical Area: Water Resources

Project: Almond 2 Power Plant

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Project Manager: Felicia Miller

Docket: 09-AFC-2

Technical Senior: Paul Marshall

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (ii)	The expected physical and chemical characteristics of the source and discharge water(s) including identification of both organic and inorganic constituents before and after any project-related treatment. For source waters with seasonal variation, provide seasonal ranges of the expected physical and chemical characteristics. Provide copies of background material used to create this description (e.g., laboratory analysis);	Section 5.15.1.4.1 Section 5.15.1.5	Yes	
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project;	Section 5.15.1.4.1 Table 5.15-5	Yes	
Appendix B (g) (14) (C) (iv)	A detailed description of all facilities to be used in water conveyance (from primary source to the power plant site), water treatment, and wastewater discharge. Include a water mass balance diagram;	Section 5.15.1.4 Section 5.15.1.5 Figure 2.1-5	Yes	
Appendix B (g) (14) (C) (v)	For all water supplies intended for industrial uses to be provided from public or private water purveyors, a letter of intent or will-serve letter indicating that the purveyor is willing to serve the project, has adequate supplies available for the life of the project, and any conditions or restrictions under which water will be provided. In the event that a will-serve letter or letter of intent can not be provided, identify the most likely water purveyor and discuss the necessary assurances from the water purveyor to serve the project;	Appendix 2A	Yes	

Adequacy Issue: Adequate **X** Inadequate \_\_\_\_\_  
 Technical Area: **Water Resources**  
 Project Manager: Felicia Miller

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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) (14) (C) (vi)	For all water supplied which necessitates transfers and/or exchanges at any point, identify all parties and contracts/agreements involved, the primary source for the transfer and/or exchange water (e.g., surface water, groundwater), and provide the status of all appropriate agencies' approvals for the proposed use, environmental impact analysis on the specific transfers and/or exchanges required to obtain the proposed supplies, a copy of any agency regulations that govern the use of the water, and an explanation of how the project complies with the agency regulation(s);	Section 5.15.1.4.1 (Process Water) Section 5.15.1.4.3 and Section 5.15.2.1.3 (Construction Water) Section 5.15.2.2.3 (Groundwater) <u>AFC Supplement A</u>	<u>Yes No</u>	<del>Section 5.15.1.4.3 and Section 5.15.2.1.3 describe that "TID Irrigation Canal water may be used for construction activities." Describe the conveyance method to be used to bring the canal water to the site.</del>
Appendix B (g) (14) (C) (vii)	Provide water mass balance and heat balance diagrams for both average and maximum flows that include all process and/or ancillary water supplies and wastewater streams. Highlight any water conservation measures on the diagram and the amount that they reduce water demand; and	Figure 2.1-3 Figure 2.1-5	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Water Resources  
 Project Manager: Felicia Miller

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Appendix B (g) (14) (C) (viii)	<p>For all projects which have a discharge, provide a copy of the will-serve letter, permit or contract with the public or private entity that will be accepting the wastewater and contact storm water from the project. The letter, permit or contract, if possible, shall identify the discharge volumes and the chemical or physical characteristics under which the wastewater and contact storm water will be accepted.</p> <p>In the event that a will-serve letter, permit, or contract cannot be provided, identify the most likely wastewater/storm water entity and discuss why the applicant was unable to secure the necessary assurances to serve the project's wastewater/storm water needs. Also, discuss the term of the wastewater service to the project, whether the wastewater entity has adequate permit capacity for the volume of wastewater from the project and has adequate permit levels for the chemical/physical characteristics of the project's wastewater and storm water for the life of the project, and any issues or conditions/restrictions the wastewater entity may impose on the project.</p>	Appendix 2A	Yes	
Appendix B (g) (14) (D)	Identify all project elements associated with stormwater drainage, including a description of the following:	_____	_____	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 1 Date June 29, 2009

Technical Area: Water Resources

Project: Almond 2 Power Plant

Technical Staff: Rachel Cancienne

Project Manager: Felicia Miller

Docket: 09-AFC-2

Technical Senior: Paul Marshall

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Appendix B (g) (14) (D) (i)	Monthly and/or seasonal precipitation and stormwater runoff and drainage patterns for the proposed site and surrounding area that may be affected by the project's construction and operation;	Section 5.15.1.1 Section 5.15.1.6	Yes	
Appendix B (g) (14) (D) (ii)	Drainage facilities and the design criteria used for the plant site and ancillary facilities, including but not limited to capacity of designed system, design storm, and estimated runoff;	Section 5.15.2.1.1 Figure 5.15-4	Yes	
Appendix B (g) (14) (D) (iii)	All assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post construction; and	Section 5.15.2.1.1 Section 5.15.2.2.1 <u>AFC Supplement A (Attachment DA5.15-1)</u>	<u>Yes No</u>	<del>Provide post construction drainage calculations or a copy of the applicable reference: CH2M HILL, 2009b, Preliminary Drainage Calculations for Peak Runoff and Retention Pond Sizing, Dated January 23, 2009.</del>
Appendix B (g) (14) (D) (iv)	A copy of applicable regional and local requirements regulating the drainage systems, and a discussion of how the project's drainage design complies with these requirements.	Section 5.15.2.1.1 Section 5.15.2.2.1 <u>AFC Supplement A</u>	<u>Yes No</u>	<del>Describe applicable regional and local drainage system design requirements.</del>
Appendix B (g) (14) (E)	An impacts analysis of the proposed project on water resources and a discussion of conformance with water-related LORS and policy. This discussion shall include:	Section 5.15.2.1 Section 5.15.2.2	Yes	

Adequacy Issue: Adequate **X** Inadequate \_\_\_\_\_

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Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source, including, but not limited to, water availability for other uses during construction or after the power plant begins operation, consistency of the water use with applicable RWQCB basin plans or other applicable resource management plans, and any changes in the physical or chemical conditions of existing water supplies as a result of water use by the power plant;	Section 5.15.1.4.1 (Process Water) Section 5.15.2.2.3 (Groundwater)	Yes	
Appendix B (g) (14) (E) (ii)	If the project will pump groundwater, an estimation of aquifer drawdown based on a computer modeling study shall be conducted by a professional geologist and include the estimated drawdown on neighboring wells within 0.5 mile of the proposed well(s), any effects on the migration of groundwater contaminants, and the likelihood of any changes in existing physical or chemical conditions of groundwater resources shall be provided;	Section 5.15.2.2.3 <u>AFC Supplement A</u> <u>(Attachment DA5.15-2)</u>	<u>Yes No</u>	<del>Provide a copy of the well development pump test reference: Calwater Drilling Company, Inc. Well Completion Report conducted in 2000.</del>
Appendix B (g) (14) (iii)	The effects of construction activities and plant operation on water quality and to what extent these effects could be mitigated by best management practices;	Section 5.15.2.1.2 Section 5.15.2.2.2	Yes	

Adequacy Issue: Adequate  Inadequate   
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Appendix B (g) (14) (iv)	If not using a zero liquid discharge project design for cooling and process waters, include the effects of the proposed wastewater disposal method on receiving waters, the feasibility of using pre-treatment techniques to reduce impacts, and beneficial uses of the receiving waters. Include an explanation why the zero liquid discharge process is “environmentally undesirable,” or “economically unsound;”	Section 6.4.15 (Alternatives) Appendix 2A	Yes	
Appendix B (g) (14) (v)	If using fresh water, include a discussion of the cumulative impacts, alternative water supply sources and alternative cooling technologies considered as part of the project design. Include an explanation of why alternative water supplies and alternative cooling are “environmentally undesirable,” or “economically unsound”;	N/A	N/A	
Appendix B (g) (14) (vi)	The effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones; and	Section 5.15.2.1.4 Section 5.15.2.2.4	Yes	
Appendix B (g) (14) (vii)	All assumptions, evidence, references, and calculations used in the analysis to assess these effects.	Section 5.15.2.1.4 Section 5.15.2.2.4	Yes	

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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 5.15.5 Table 5.15-9	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.	Section 5.15.5 Table 5.15-9	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 5.15.5 Table 5.15-9 <u>AFC Supplement A (Table DA5.15-2)</u>	<u>Yes</u> No	<del>AFC only included addresses &amp; phone numbers. Provide names of contacts at each agency.</del>
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 5.15.6 Table 5.15-10	Yes	