

Memorandum

Date: December 17, 2002
Telephone: ATSS (916) 654-4067
File: Walnut Energy Center - 02-AFC-4

To: William J. Keese, Chairman
Robert Pernell
Arthur H. Rosenfeld, Ph.D
James D. Boyd
John L. Geesman

From: California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512

Subject: **REVISED DATA ADEQUACY RECOMMENDATION FOR THE WALNUT ENERGY CENTER PROJECT - (02-AFC-4)**

Staff has completed a second round of data adequacy review of the Turlock Irrigation District's Walnut Energy Center Application for Certification (AFC) submitted on November 19, 2002. Staff now believes that the AFC contains all the information required by Cal. Code of Regs., tit. 20, § 1704, Appendix B (12-month process). Attachment A contains an overview of each of the technical disciplines that previously contained deficiencies during the first round of review, and staff's adequacy recommendation. Attachment B contains the individual data adequacy worksheets for the areas that previously contained deficiencies detailing staff's conclusions for each technical section.

The Walnut Energy Center Project AFC is one of the most complete applications recently filed with the Commission. Since my Data Adequacy Recommendation letter dated December 9, 2002, the Applicant has worked with Staff to provide supplemental information to make the application complete. The project appears to be generally free of any significant issues that would prevent it from being successfully completed within the 12-month process time frames.

Based on Staff's review of the supplemental AFC materials provided by the Applicant, I recommend that the Energy Commission find the AFC complete at the Energy Commission's Business Meeting on December 18, 2002

If you have any questions, please call Matt Trask, staff's Project Manager, at (916) 654-4067.

Sincerely,

STEVE LARSON
Executive Director

**ATTACHMENT A
OVERVIEW OF ENERGY COMMISSION STAFF'S
REVISED DATA ADEQUACY RECOMMENDATION
WALNUT ENERGY CENTER PROJECT
02-AFC-4**

Technical Area	<i>Adequate?</i>	Page No.
Air Quality	Yes	3
Biological Resources	Yes	8
Cultural Resources	Yes	12
Geological Hazards	Yes	15
Land Use	Yes	17
Paleontological Resources	Yes	20
Socioeconomics	Yes	22
Soil Resources	Yes	29
Transmission System Engineering	Yes	31
Visual Resources	Yes	34
Water Resources	Yes	37

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 01 Date December 13, 2002

Technical Area: **Air Quality**

Project: Turlock Irrigation District
Walnut Energy Center Project

Technical Staff: William Walters

Project Manager: Mathew Trask

Docket: 02-AFC-4

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.	§2.2.11 p 2-14, 15 §8.1.1 through 8.1.8, p 8.1-1 through 8.1-58. Appendices 8.1A through 8.1G	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.	District's Notice of Complete Application Dated 12/11/02	Yes No	Permit application completeness determination from SJVAPCD. Permit Application was provided to the District on 11/22/02. The District has 30 days to review application completeness and (per Jim Swaney on 12/2/02) the District is expediting the analysis in an attempt to be finished by 12/18/02.
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.	§8.1.5, Table 8.1-14, p 8.1-36 Appendix 8.1B §8.1.5, Table 8.1-16, p 8.1-37 §2.2.2 p 2-3	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	§2.2.11 p 2-14, 15 §8.1.6.3 p 8.1-58 to -60 Appendix 8.1E	Yes	
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.	§2.2.8 p 2-11 §8.1.5.1.1 p 8.1-38 Appendix 8.1A Table 8.1A-2 and -11	Yes	
Appendix B (g) (8) (E)	The emission rates of criteria pollutants from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all secondary emission sources.	§8.1.5.1 p 8.1-35 to -38; Tables 8.1-15 to -18 Appendix 8.1-A	Yes	

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Appendix B (g) (8) (F)	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.	§8.1.5.1.1 p 8.1-37, 38; Table 8.1-17 §8.1.5.1.2 p 8.1-49 Appendix 8.1A, Table 8.1A-5	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.	§8.1.3 p 8.1-11 to -22 Tables 8.1-2 to - 9	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.	Electronic Submittal on CD	Yes	
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.)		N/a	
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.	§8.1.5.1.2 p 8.1-43 to -45 Electronic Submittal on CD	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:			

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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 inert 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)] from construction-related equipment;	§8.1.5.3 p 8.1-56, 57 Appendix 8.1D Electronic Filing 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 inert criteria pollutant (NO _x , SO ₂ , CO and PM ₁₀) 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; and	§8.1.5.1.2 p 8.1-41 to -54 Appendix 8.1B Electronic Filing on CD	Yes	
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.	Appendix 8.1G (§8.1.5.1.2 p 8.1-41 to -49 presents general modeling analysis methodology)	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:			
Appendix B (g) (8) (J) (i)	The quantity of offsets needed;	§8.1.6.3 pgs 8.1-60 to -62	Yes	

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Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions; and	§8.1.6.3, p 8.1-60 to -62 <u>Appendix 8.1F</u> <u>Data Adequacy Supplement</u>	<u>Yes</u> No	Identification of specific emission reduction credit sources (confidential submittal is acceptable) that may be used to cover the identified NOx and VOC emission reduction shortfalls (Table 8.1-29, p 8.1-61), including their method of emission reduction. Alternatively, the Applicant may choose to revise the project description based on revised operating profile assumptions, showing that fewer ERCs are needed to mitigate the project's air quality impact; please see the attached e-mail from Will Walters giving guidance on the information needed if the Applicant chooses to revise the operating profile assumptions.
Appendix B (g) (8) (J) (iii)	Method of emission reduction.	Appendix 8.1F <u>Data Adequacy Supplement</u>	<u>Yes</u> No	See Above.
Appendix B (g) (8) (K)	A topographic map containing contour and elevation data, at a scale of 1:24,000, showing the area within 6 miles of the power plant site.	USGS Topographic Maps	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	§8.1.4.1, Table 8.1-13, p 8.1-32 to - 34 Appendix 1E, Table 1E, p APP 1E-1	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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.	§8.1.4.1, Table 8.1-13, p 8.1-32 to - 34 Appendix 1F, Table 1F p APP 1F-1	Yes	

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Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	§8.1.6 p 8.1-57 to – 63	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.1-10 p 8.1-24	Yes	
Appendix B (h) (4)	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.	§8.1.6 Appendix 1	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Mathew Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 17, 2002
 Technical Staff: Melinda Dorin
 Technical Senior: Jim Brownell

Project: TID Walnut
 Docket: 02-AFC-04

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.	Sec. 8.2, pgs. 8.2-1 to -37; Figures 8.2-1, and 8.2-2A to -2H; and Appendices 1E, 1F, 1G and 8.2A-C	Yes	
Appendix B (g) (13) (A)	A regional overview and discussion of biological resources, with particular attention to sensitive biological resources near the project, and a map at a scale of 1:100,000 (or some other suitable scale) showing their location in relation to the project.	Sec. 8.2.3, pgs. 8.2-3 to -11; Figure 8.2-1; and Appendix 8.2A	Yes	
Appendix B (g) (13) (B)	A discussion and detailed maps at a scale of 1:6,000, of the biological resources at the site of the proposed project and related facilities, and in areas adjacent to them, out to a mile from the site and 1000 feet from the outer edge of linear facility corridors. Include a list of the species actually observed and those with a potential to occur. The discussion and maps shall address the distribution of community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and the presence of sensitive biological resources.	Sec. 8.2.3.3, pgs. 8.2-7 to -11; Sec. 8.2.4, pgs. 8.2-12 to -19; Table 8.2-3, pgs. 8.2-29 to -34; Table 8.2-4, pgs. 8.2-35, and -36; and Figures 8.2-2A to -2H <u>Data Adequacy Supplement December 12, 2002, Sec. 2.2, Table 8.2-7, p. 7</u>	NO <u>Yes</u>	

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 Technical Senior: Jim Brownell

Project: TID Walnut
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Appendix B (g) (13) (C)	A description of all studies and surveys used to provide biological information about the project site, including seasonal surveys and copies of the California Department of Fish and Game's Natural Diversity Data Base Survey Forms, "California Native Species Field Survey Forms", and "California Natural Community Field Survey Forms", completed by the applicant. Include the dates and duration of the studies, methods used to complete the studies, and the names and qualifications of individuals conducting the studies.	Sec. 8.2.3.4, pg. 8.2-11; and Appendices 8.2A and 8.2B	Yes	
Appendix B (g) (13) (D)	A discussion of all permanent and temporary impacts to biological resources from site preparation, construction activities, and plant operation. Discussion of impacts must consider impacts from cooling tower drift, and from the use and discharge of water during construction and operation. For facilities which use once-through cooling or take or discharge water directly from or to natural sources, discuss impacts resulting from entrainment, impingement, thermal discharge, effluent chemicals, type of pump (if applicable), temperature, volume and rate of flow at intake and discharge location, and plume configuration in receiving water.	Sec. 7.0, pgs. 7-1 to -3; Sec. 8.2.4, pgs. 8.2-12 to -19; Sec. 8.14.5, pgs. 8.14-6 to -17; and Table 8.2-4, pgs. 8.2-35 and -36 <u>Data Adequacy Supplement December 12, 2002, Sec. 2.2, p. 4</u>	NO Yes	
Appendix B (g) (13) (E)	A discussion of the following:			
Appendix B (g) (13) (E) (i)	All measures proposed to avoid and/or reduce any adverse impacts;	Sec. 8.2.5, pgs. 8.2-19 to -22	Yes	
Appendix B (g) (13) (E) (ii)	All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and	Sec. 8.2.5, pgs. 8.2-19 to -22	Yes	
Appendix B (g) (13) (E) (iii)	Any educational programs proposed to enhance employee awareness in order to protect biological resources.	Sec. 8.2.5.2, pg. 8.2-20	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Mathew Trask

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Project: TID Walnut
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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) (13) (F)	A discussion of compliance and monitoring programs proposed to ensure the effectiveness of mitigation measures incorporated into the project.	Sec. 8.2.5, pgs. 8.2-19 to – 22; and Appendix 8.2C	Yes	
Appendix B (g) (13) (G)	A discussion of native fish and wildlife species of commercial and/or recreational value that could be impacted by the project.	Data Adequacy Supplement December 12, 2002 Sec. 2.2, p. 4	NO Yes	
Appendix B (g) (13) (H)	For purposes of this section, sensitive biological resources are one of the following:			
Appendix B (g) (13) (H) (i)	Species listed under state or federal Endangered Species Acts;	Sec. 8.2.2.1, pg. 8.2-1; Sec. 8.2.2.2, pg. 8.2-1; Sec. 8.2.3.3, pgs. 8.2-7 to – 11; and Table 8.2-3, pgs. 8.2-29 to -34	Yes	
Appendix B (g) (13) (H) (ii)	Resources defined in sections 1702 (q) and (v) of Title 20 of the California Code of Regulations; and	Sec. 8.2.4.2, pgs. 8.2-12 to –15; Sec. 8.2.4.3, pgs. 8.2-15 and -16; Sec. 8.2.4.4, pgs. 8.2-17 and -18; and Sec. 8.2.5, pgs. 8.2-19 to - 22	Yes	
Appendix B (g) (13) (H) (iii)	Species or habitats identified by legislative acts as requiring protection.	Sec. 8.2.2.2, pg. 8.2-2; and Table 8.2-3, pg. 8.2-29 to - 34	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	Sec. 8.2.2, pgs. 8.2-1 to –3; Tables 8.2-1 and –2, pgs. 8.2-24 to –28; and Appendix 1E	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Mathew Trask

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Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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 8.2-1, pgs. 8.2-24 to -26; Table 8.2-2, pgs. 8.2-27, -28; and Table 8.2-6, pg. 8.2-37	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 8.2-1, pgs. 8.2-24 to -26	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.2-5, pg. 8.2-37	Yes	
Appendix B (h) (4)	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.	Table 8.2-6, pg. 8.2-37 Data Adequacy Supplement December 12, 2002 Sec. 2.2, pgs. 4 and 5; Table 8.2-6R, p. 6	NO <u>Yes</u>	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: Mathew Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 16, 2002
 Technical Staff: Gary Reinoehl
 Technical Senior: Dale Edwards

Project: Walnut Energy Center
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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.	Section 8.3.3, 8.3.4, 8.3.5, and 8.3.6	Yes	
Appendix B (g) (2) (A)	A brief summary of the ethnology, prehistory, and history of the region in which the project site and related facilities are located and maps at a scale of 1:24,000, indicating areas of ethnographic occupation. The region may vary depending on the extent of the territory occupied or used by prehistoric cultures indigenous to the area in which the project is located.	Section 8.3.3.2, 8.3.3.3, and 8.3.3.5, Confidential Appendix 8.3D and 8.3F	Yes	
Appendix B (g) (2) (B)	A description of all literature searches and field surveys used to provide information about known cultural resources in the project vicinity. If survey records of the area potentially physically affected by the project are not available, and the area has the potential for containing significant cultural resources, the applicant shall submit a new or revised survey for any portion of the area lacking comprehensive survey data. A discussion of the dates of the surveys, methods used in completing the surveys, and the identification and qualification of the individuals conducting the surveys shall be included.	Section 8.3.3.5.4 <u>AFC Supplement</u>	<u>Yes No</u>	Please provide a technical report that documents the survey, coverage for each component of the project, and the findings, including the resumes of all individuals covering each of the technical areas for the survey.

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Appendix B (g) (2) (C)	A discussion of the sensitivity of the project area described in subsection (g)(2)(A) and the presence and significance of any known archeological sites and other cultural resources that may be affected by the project. Information on the specific location of archeological resources shall be included in a separate appendix to the application and submitted to the Commission under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq.	Confidential Appendix 8.3D and 8.3F	Yes	
Appendix B (g) (2) (D)	A summary of contacts and communications with, and responses from, Native American representatives who may have an interest in heritage lands and/or resources potentially affected by the proposed project.	Section 8.3.3.5.4 Confidential Appendix 8.3D and 8.3F	Yes	
Appendix B (g) (2) (E)	In the discussion on mitigation and monitoring prepared pursuant to subsection (g)(1), a discussion of any educational programs proposed to enhance awareness of potential impacts to archeological resources by employees and contractors, measures proposed for mitigation of impacts to known cultural resources, and a set of contingency measures for mitigation of potential impacts to previously unknown cultural resources.	Section 8.3.6.3	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	Table 8.3-1, Section 8.3.2	Yes	

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Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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 8.3-6 and Section 8.8.8	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 8.3-1, Section 8.3.2	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.3-6	Yes	
Appendix B (h) (4)	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 8.3.8	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002

Technical Area: Geological Hazards
 Project Manager: Matt Trask

Project: Walnut Energy Center
 Docket: 02-AFC-4

Technical Staff: Dal Hunter, Ph.D.
 Technical Senior: Lynn Alexander

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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.	Section 8.15 - 1 to 8.15 - 6, Sections 8.15.3 to 8.15.5	Yes	
Appendix B (g) (17) (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities;	Pages 8.15 - 1 to 8.15 - 5, Section 8.15.3	Yes	
Appendix B (g) (17) (B)	A map at a scale of 1:24,000 and description of all recognized stratigraphic units, geologic structures, and geomorphic features within 2 miles of the project site. Include an analysis of the likelihood of ground rupture, seismic shaking, mass wasting and slope stability, liquefaction, subsidence, and expansion or collapse of soil structures.	Figure 8.15 - 1	Yes	
Appendix B (g) (17) (C)	A map and description of geologic resources of recreational, commercial, or scientific value which may be affected by the project. Include a discussion of the techniques used to identify and evaluate these resources.	Page 8.15 - 6, Section 8.15.4.3	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	Page 8.15 - 1, Table 8.15 - 1; Page 8.15 - 7, Section 8.15.6; <u>Data Adequacy Responses, Section 2.5, Table 8.15 - 12</u>	<u>Yes</u> No	City of Turlock requires a grading permit. Table does not explicitly reference pages describing conformance.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002

Technical Area: Geological Hazards

Project: Walnut Energy Center

Technical Staff: Dal Hunter, Ph.D.

Project Manager: Matt Trask

Docket: 02-AFC-4

Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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 8.15 – 1, Section 8.15.2, Table 8.15.1	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 8.15 – 6 Section 8.15.5	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	<u>Data Adequacy Responses, Section 2.5, Table 8.15 – 4R</u>	<u>Yes No</u>	<u>Agency contacts should be provided.</u>

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Mathew Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2002
 Technical Staff: David Flores
 Technical Senior: Eileen Allen

Project: Walnut Energy Center
 Docket: 02-AFC-4

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.	AFC pg. 8.4-4 Sec. 8.4.3.1 AFC pg. 8.4-14 Sec. 8.4.7 <u>Data Adequacy Supplement dated 12/12/02 Pg.12</u>	<u>Yes</u> No	Provide mitigation plan for loss of prime agricultural land. See item B (g) (3) (B) for further discussion.
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:	AFC pg. 8.4-4 through 8.4-9 Figures 8.4-1 & 8.4-2	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;	AFC pg. 8.4-9 Sec. 8.4.3.2.3 AFC pg. 8.12-5 through 7 Sec. 8.12.3 Table 8.12-2	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any trends in recent zoning changes and potential future land use development;	AFC pg. 8.4-11 Sec. 8.4.4	Yes	
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	AFC pg. 8.4-12 Sec. 8.4.5	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.	Figure 8.4-1 Figure 8.4-2	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2002

Technical Area: Land Use

Project: Walnut Energy Center

Technical Staff: David Flores

Project Manager: Mathew Trask

Docket: 02-AFC-4

Technical Senior: Eileen Allen

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) (B)	A discussion of the compatibility of the proposed facilities with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agency. The discussion shall identify the need, if any, for variances or any measures that would be necessary to make the proposal conform with permitted land uses	AFC pg. 8.4-14 Sec. 8.4.6.3 AFC pg. 8.4-15 through 19 Table 8.4-6 <u>Data Adequacy Supplement dated 12/12/02 Pg.12</u>	<u>Yes No</u>	The AFC (Sec. 8.4.2.3.2) indicates that the project site is zoned Industrial, but is currently being farmed and is considered irrigated prime farmland. Under CEQA, the applicant is required to mitigate for the permanent loss of prime agricultural land. Please provide a discussion and mitigation plan for the removal of 18 acres from active agricultural use to a non-agricultural use.
Appendix B (g) (15) (B)	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:	AFC pg. 8.9-4, Sec. 8.9.3 AFC pg. 8.9-7 & 8 Sec. 8.9.3.1 through 4 Figure 8.9-2	Yes	
Appendix B (g) (15) (B) (i)	Crop types, irrigation systems, and any special cultivation practices; and	AFC pg. 8.9-7& 8, Sec. 8.9.3.1 through 4, Figure 8.9.2	Yes	
Appendix B (g) (15) (B) (ii)	Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the Natural Resource Conservation Service of the California Department of Conservation.	AFC pg. 8.4-10 Sec. 8.4.3.3.2 Figure 8.9-2 AFC pg. 8.9-8 & 9 Sec. 8.9.3.5	Yes	
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This decision shall include:	AFC pg. 8.4-12 & 13 Sec. 8.4.6.2 through 8.4.6.2.2	Yes	
Appendix B (g) (15) (C) (ii)	Direct and indirect effects on agricultural land uses; and	AFC pg. 8.4-10 Sec. 8.4.3.3.2 Appendix 8.4A AFC pg. 8.4-12 through 14 Sec. 8.4.6	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 12, 2002

Technical Area: Land Use

Project: Walnut Energy Center

Technical Staff: David Flores

Project Manager: Mathew Trask

Docket: 02-AFC-4

Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	AFC pg. 8.4-5 Sec. 8.4.3.2.1 AFC pg. 8.4-6 & 7 Table 8.4-4 Table 8.4-5	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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.	AFC pg. 8.4-2 Table 8.4-2 AFC pg. 8.4-3 Table 8.4-3	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	AFC pg. 8.4-14 Sec. 8.4.6.3 AFC pg. 8.4-15 through 19 Table 8.4-6	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	AFC pg. 8.4-2 Table 8.4-2	Yes	
Appendix B (h) (4)	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.	AFC pg. 8.4-3 Table 8.4-3	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Paleontological Resources
 Project Manager: Matt Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002
 Technical Staff: Dal Hunter, Ph.D.
 Technical Senior: Lynn Alexander

Project: Walnut Energy Center
 Docket: 02-AFC-4

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 8.16-B to 8.16 – 14, Sections 8.16.3 to 8.16.6	Yes	
Appendix B (g) (16) (A)	Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The area may vary depending on the depositional history of the area.	Pages 8.16-3 to 8.16-6, Sections 8.16.3.1 to 8.16.3.2	Yes	
Appendix B (g) (16) (B)	A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontologic localities or other paleontologic resources within or adjacent to the project.	Pages 8.16 – 10 to 8.16 – 13, Section 8.16.4	Yes	
Appendix B (g) (16) (C)	A summary of all literature searches and field surveys used to provide information about paleontologic resources in the project area described in subsection (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys.	Pages 8.16 – 5 to 8.16 -10, Sections 8.16.3.3 to 8.16.3.4	Yes	
Appendix B (g) (16) (D)	Information on the specific location of known paleontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to Title 20, California Code of Regulations, § 2501 et seq.	Figure 8.16 – 1; <u>Data Adequacy Responses, Section 2.7</u>	<u>Yes No</u>	WEC plant site and linear facilities are not shown on the map. In addition, known paleontological resources are described in the text; however, these are not shown on the map.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002

Technical Area: Paleontological Resources

Project: Walnut Energy Center

Technical Staff: Dal Hunter, Ph.D.

Project Manager: Matt Trask

Docket: 02-AFC-4

Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (16) (E)	A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known paleontologic resources, and a set of contingency measures for mitigation of potential impacts to currently unknown paleontologic resources.	Pages 8.16 – 13 to 8.16 – 14, Section 8.16.6.2	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	Page 8.16 – 1, Section 8.16.2, Table 8.16 - 1	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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 8.16 – 1, Section 8.16.2, Table 8.16 - 1	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pages 8.16 – to 8.16 – 3 Section 8.16.2	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.		N/A	
Appendix B (h) (4)	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.		N/A	

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002

Technical Area: Socioeconomics

Project: Turlock Irrigation District Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Mathew Trask

Docket: 02-AFC-4

Technical Senior: Mr. Dale Edwards

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.	8.8.1 Introduction, page 8.8-1. 8.8.4 Environmental Consequences, pages 8.8-12 to 8.8-21. 8.8.5 Cumulative Impacts, page 8.8-21. 8.8.6 Mitigation Measures, page 8.8-22. <u>DA Response. See Section 2.8 Socioeconomics, Response 1, page 14. 12/13/2002.</u> <u>Supplemental DA Material- Fiscal Impacts on 12/13/2002.</u>	Yes No	Please indicate for this economic data and all other economic estimates, the year all economic estimates were made.
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:			
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;	8.8.3.3 Economy and Employment, pages 8.8-6 to 8.8-7. Table 8.8-7 Employment Distribution in Stanislaus County, 1998 to 2001, page 8.8-7. Table 8.8-8 Employment Data, 2001, page 8.8-7.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002

Technical Area: Socioeconomics

Project: Turlock Irrigation District Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Mathew Trask

Docket: 02-AFC-4

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		8.8.3.4 Fiscal Resources, pages 8.8-7 to 8.8-9. Table 8.8-9 Stanislaus Revenues and Expenditures (\$ Million), page 8.8-8. Table 8.8-10 City of Turlock Revenues and expenditures (\$ Million), page 8.8-9.		
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	8.8.3.1 Population, pages 8.8-3 to 8.8-6. Table 8.8-2 Historical and Projected Populations, page 8.8-3. Table 8.8-3 Historical and Projected Annual Average Compounded Growth Rates, page 8.8-3. Table 8.8-4 Distribution of Minority and Hispanic Population by Census Tracts Within 6-Mile Radius, pages 8.8-4 to 8.8-5. Table 8.8-5 Distribution of Low-Income Population by Census Tracts Within 6-Mile Radius, pages 8.8-5 to 8.8-6.	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	8.8.3.3 Economy and Employment, pages 8.8-6 to 8.8-7.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002

Technical Area: Socioeconomics

Project: Turlock Irrigation District Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Mathew Trask

Docket: 02-AFC-4

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		Table 8.8-7 Employment Distribution in Stanislaus County, 1998-2001, page 8.8-7. Table 8.8-8 Employment Data, 2001, page 8.8-7.		
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	8.8.4.3.1 Construction Workforce, page 8.8-13. Table 8.8-13 Union Contacts, page 8.8-16. Table 8.8-14 Available Labor by Skill in Stanislaus County, 1999-2006, page 8.8-16.	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing; and	8.8.3.2 Housing, page 8.8-6. Table 8.8-6 Housing Estimates by City, County and State, January 2000, page 8.8-6. 8.8.4.3.3 Housing Impacts, page 8.8-17.	Yes	
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,	8.8.3.5 Education, pages 8.8-9 to 8.8-10. 8.8.3.6 Public Services and Facilities, pages 8.8-10 to 8.8-12. 8.8.4.3.6 Impacts on Education, page 8.8-18. 8.8.4.3.7 Impacts on	Yes	

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002

Technical Area: Socioeconomics

Project: Turlock Irrigation District Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Mathew Trask

Docket: 02-AFC-4

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
	for the duration of the project construction schedule.	Public Services and Facilities, page 8.8-18. Impacts on Utilities, page 8.8-19.		
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project, including:			
I	The number of workers to be employed each month by craft during construction and operation;	Table 8.8-12 Construction Personnel by Month, pages 8.8-14 to 15. 8.8.4.4.1 Operational Workforce, page 8.8-19. Table 8.8-15 Typical Plant Operation Workforce, page 8.8-19.	Yes	
Appendix B (g) (7) (B) (ii)	An estimate of the number and percentage of workers who will commute daily, commute weekly, or relocate in order to work on the project;	8.10.4.2.1 Plant Construction, page 8.10-14. Table 8.10-6 Total Daily Construction-Related Vehicle Trip Generation at the Project Site, page 8.10-4. <u>8.8.4.4.1 Operational Workforce, page 8.8-19.</u> <u>8.8.4.3.1 Construction Workforce, page 8.8-13.</u> <u>8.8.4.3.2 Population Impacts, page</u>	<u>Yes No</u>	Please provide an estimate and economic rationale for the number of non-local construction workers and the analysis/assumptions on how they and their families (if appropriate) will be distributed to the affected local communities and Stanislaus County.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002

Technical Area: Socioeconomics

Project: Turlock Irrigation District Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Mathew Trask

Docket: 02-AFC-4

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		<p><u>8.8-17.</u></p> <p><u>8.8.4.4.1 Operational Workforce, page 8.8-19.</u></p> <p><u>8.8.4.4.2 Population Impacts, page 8.8-19.</u></p> <p><u>Data Response Section 2.8 Socioeconomics Response 2, page 14.</u></p>		
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	<p>8.8.4.3.2 Population Impacts, page 8.8-17.</p> <p>8.8.4.4.2 Population Impacts, page 8.8-19.</p>	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	<p>8.8.4.3.3 Housing Impacts, page 8.8-17.</p> <p>8.8.4.4.1 Operational Workforce, page 8.8-19.</p>	Yes	
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. 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 operation phases;	<p>8.8.4.3.6 Impacts on Education, page 8.8-18.</p> <p>8.8.4.3.7 Impacts on Public Services and Facilities, page 8.8-18 and 19.</p> <p>8.8.4.3.8 Impacts on Utilities, page 8.8-19.</p>	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002

Technical Area: Socioeconomics

Project: Turlock Irrigation District Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Mathew Trask

Docket: 02-AFC-4

Technical Senior: Mr. Dale Edwards

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) (vi)	An estimate of applicable school impact fees;	8.8.4.4.6 Impacts on Education, page 8.8-21.	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and an estimate of the total operation payroll;	8.8.4.3.4 Impacts to the Local Economy and Employment, page 8.8-17. 8.8.4.4.4 Impacts on the Local Economy and Employment, page 8.8-20.	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; and	8.8.4.3.4 Impacts to the Local Economy and Employment, Indirect and Induced Economic Impacts from Construction, page 8.8-17. 8.8.4.4.4 Impacts on the Local Economy and Employment, Indirect and Induced Economic Impacts from Operation, page 8.8-20. <u>Data Response, Section 2.8 Socioeconomics, Response 3, page 15.</u>	Yes No	Please provide an estimate for locally purchased materials (and supplies) for the operation of the project. It is not clear if this is the \$2 million in the annual operation budget discussed in 8.8.4.4.4, page 8.8-20.
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost of the project of the potential impacts on tax revenues from construction and operation of the project.	8.8.4.3.5 Fiscal Impacts, page 8.8-18. 8.8.4.4.5 Fiscal Impacts, pages 8.8-20 & 21.	Yes	
Appendix B	Tables which identify laws, regulations,	Vol. II Table 1 E, Laws,	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002

Technical Area: Socioeconomics

Project: Turlock Irrigation District Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Mathew Trask

Docket: 02-AFC-4

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
(h) (1) (A)	ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	Ordinances, Regulations, and Standards Applicable to WEC for Environmental Information, pages APP1E-3 and APP1E-12.		
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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.	Same as above.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	8.8.7 Mitigation Measures, page 8.8-22.	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.8-16 Agency and Agency Contacts for WEC, Socioeconomics, pages 8.8-22&23.	Yes	
Appendix (h) (4)	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.	8.8.9 Permits and Permitting Schedule, page 8.8-23.	N/A	

Adequacy Issue: Adequate Inadequate
 Technical Area: Soils
 Project Manager: Matt Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12.16.02
 Technical Staff: M. Lorraine White
 Technical Senior: Dick Anderson

Project: Walnut Energy Center - TID
 Docket: 02-AFC-4

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.	§1.0, p.1-1 to 1-3 §2.0, p.2-1 to 2-3, 2-18 to 2-19, Figures 2.1-1, 2.2-1, 2.2-3 §8.9, p.8.9-1 to 8.9-17 and associated Figures and Tables. p.9-1 to 9-28, and associated Figures and Tables WEC DA Supplement, p.16	<u>Yes</u> No	If imported soils are required for fill material, what will be the source of the soil, and what is to be done with soils unsuitable for use in compaction at the site. Please include any information on cut and fill requirements for linear facilities.
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:	Figure 8.9-1	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; and	p.8.9-4, Table 8.9-2, App. 8.13A	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.	p.8.9-8 to 8.9-12, p.8.15-1 & 8.15-2, App. 8.13A&B	Yes	
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:	p.8-9.7 to 8.9-16	Yes	
Appendix B (g) (15) (C) (i)	The quantification of accelerated soil loss due to wind and water erosion;	Table 8.9-3	Yes	
Appendix B (g) (15) (C) (iii)	The effect of power plant emissions on surrounding soil-vegetation systems.	p.8.9-14	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12.16.02

Technical Area: Soils

Project: Walnut Energy Center - TID

Technical Staff: M. Lorraine White

Project Manager: Matt Trask

Docket: 02-AFC-4

Technical Senior: Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	Table 8.9-1 & 1F p.8.9-1 to 8.9-4	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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 8.9-1 & 1F p. 8.9-4	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	p.8.9-2 to 8.9-4 <u>WEC DA Supplement, p. 17</u>	<u>Yes No</u>	Please provide a discussion of how the proposed project's design, construction and operation will conform to legal requirements, particularly local requirements and restrictions.
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 8.9-4, 1F & 1G	Yes	
Appendix B (h) (4)	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.	Table 8.9-4 & 1F	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Eng.
 Project Manager: Matt Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002
 Technical Staff: Sudath Arachchige
 Technical Senior: Al McCuen

Project: Walnut Energy Center
 Docket: 02-AFC-4

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) (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 5.1,5.2,5.3 Figure 2.2-4 DWG #SD950 Interconnection System Impact Study - Pages 3 and 4	Yes	
Appendix B (i) (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.		N.A.	
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. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and	Section 1.2,5.1,5.2,5.3,5.4,5.5 Figure 2.2-4,5.1-1 DWG #SD950,SD951 Interconnection System Impact Study - Pages 9,10,12 and Attachment L Appendix-10D. <u>Data Adequacy Supplement: Section 2.10 Figures 1, 2 and 3</u>	<u>Yes</u> No	a. The System Impact Study Report submitted with the AFC was found inadequate in considering Post-Project mitigation measures for N-1 contingencies. (EAEC Tracy 230KV line #1 and #2) b. Identify Post-Project mitigation measures on Oakdale 115KV and Westley 230KV buses due to the impact caused by System Fault Duties. -Provide a list of mitigation measures considered and those selected (if available) for N-1 criteria violations and impact on buses due to the System Fault Duties. Coordinate with neighboring systems (TANC, SMUD, MID and WAPA) and generation developers to ensure that the interconnection of WEC will not adversely impact transmission system performance.

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Eng.
 Project Manager: Matt Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002
 Technical Staff: Sudath Arachchige
 Technical Senior: Al McCuen

Project: Walnut Energy Center
 Docket: 02-AFC-4

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 5.1,5.2,5.3,5.4 Figure 2.2-4	Yes	
Appendix B (g) (18) (A)	The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.	Section 5.2,5.3,5.4 Figure 2.2-1,5.1-1,5.1-2	Yes	
Appendix B (g) (18) (B)	An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project.		NA	
Appendix B (g) (18) (C)	Specific measures proposed to mitigate identified impacts, including a description of measures proposed to eliminate or reduce radio and television interference, and all measures taken to reduce electric and magnetic field levels.		NA	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	Section 5.6 Pages 5-14, 5-15 Table 5.6-13.9, Table 3.9-1, Appendix 1-E	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Eng.
 Project Manager: Matt Trask

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 Technical Senior: Al McCuen

Project: Walnut Energy Center
 Docket: 02-AFC-4

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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.	Appendix 1F and 1G	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Appendix 10-D Figure 5.5-2 to 5.5-5	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	NA	NA	
Appendix B (h) (4)	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	

Adequacy Issue: Adequate Inadequate
 Technical Area: Visual Resources
 Project Manager: Mathew Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002
 Technical Staff: Eric Knight
 Technical Senior: Dale Edwards

Project: Walnut Energy Center
 Docket: 02-AFC-4

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.	Pp. 8.11-1 – 8.11-9; Sec. 8.11.2 Pp. 8.11-9 – 8.11-19; Sections 8.11.3 – 8.11.6	Yes	
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the project, the region that can be seen from the vicinity of the project, and the proposed project site. Include:	Pp. 8.11-1 – 8.11-5; Sec. 8.11.2	Yes	
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 of the areas from which the project may be seen, identification of the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(E);	Figures 8.11-1, 8.11-7, and 8.11-8 <u>Figures 8.11-7aR and bR;</u> <u>Data Adequacy Supplement</u>	No <u>Yes</u>	The viewshed map, Figure 8.11-7, only depicts the boundary line of the “area of potential visibility” of the project, which was set at a 3-mile radius from the project site. However, the map does not attempt to differentiate the areas within the 3-mile radius which would actually have views of the project (either unobstructed or partially unobstructed) from those areas that would not have views due to intervening structures, vegetation, or terrain. Furthermore, the map is not at a scale of 1:24,000. Please revise the map. For an example, see the Russell City Energy Center AFC, Figures 8.13-1a and 8.13-1b.
Appendix B (g) (6) (A) (ii)	Elevations of any existing structures on the site; and	P. 8.11-4; Sec. 8.11.2.2.1 <u>P.21; Data Adequacy Supplement</u>	No <u>Yes</u>	An elevation drawing of the existing wood poles on the WEC site is not necessary. However, please provide the height of these poles.
Appendix B (g) (6) (A) (iii)	The visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities.	Pp. 8.11-1 – 8.11-5; Sec. 8.11.2	Yes	
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that will be impacted by the proposed project.	Pp. 8.11-7 – 8.11-9; Sec. 8.11.2.4	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Visual Resources
 Project Manager: Mathew Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002
 Technical Staff: Eric Knight
 Technical Senior: Dale Edwards

Project: Walnut Energy Center
 Docket: 02-AFC-4

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (C)	After discussions with staff and community residents who live in close proximity to the proposed project, identify the scenic corridors and any visually sensitive areas potentially affected by the proposed project, including recreational and residential areas. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. For purposes of this section, a scenic corridor is that area of land with scenic natural beauty, adjacent to and visible from a linear feature, such as a road, or river.	Pp. 8.11-7 – 8.11-9; Sec. 8.11.2.4	Yes	
Appendix B (g) (6) (D)	A description of the dimensions, color, and material of each major visible component of the project.	Pp. 8.11-10 – 8.11-11; Table 8.11-2; Sec. 8.11.3.3 P.21; <u>Data Adequacy Supplement</u>	No <u>Yes</u>	Please provide the heights of the poles for the proposed 115 kV and 69 kV transmission lines.
Appendix B (g) (6) (E)	Full-page color photographic reproductions of the existing site, and full-page color simulations of the proposed project in the existing setting from each location representative of the view areas most sensitive to the potential visual impacts of the project.	Figures 8.11-9a – 8.11-13b	Yes	
Appendix B (g) (6) (F)	An assessment of the visual impacts of the project, including light and glare, and visible plumes.	Pp. 8.11-13 – 8.11-18; Sec. 8.11.3	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	P. 8.11-20; Table 8.11-3	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Visual Resources
 Project Manager: Mathew Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date December 13, 2002
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 Technical Senior: Dale Edwards

Project: Walnut Energy Center
 Docket: 02-AFC-4

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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.	P. 8.11-20; Table 8.11-3	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pp. 8.11-21 – 8.11-23; Tables 8.11-4 – 8.11-7	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	P. 8.11-20; Table 8.11-3	Yes	
Appendix B (h) (4)	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.	P. 8.11-21; Table 8.11-4 Pp.21 – 22; <u>Data Adequacy Supplement</u>	No <u>Yes</u>	Due to the designation of West Main Street as a "Gateway Route" by the City of Turlock General Plan, the AFC states that TID will submit its proposed project to the City for the purpose of design review. Although not a permit per se, please provide a schedule indicating when the mandatory design review process will be completed and the steps that TID has taken or plans to take to satisfy the design review process.

Adequacy Issue: Adequate **X** Inadequate _____
 Technical Area: **Water Resources**
 Project Manager: **Matt Trask**

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12.16.02
 Technical Staff: M. Lorraine White
 Technical Senior: Dick Anderson

Project: Walnut Energy Center - TID
 Docket: 02-AFC-4

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.	§2.0 and associated Figures and Tables §7.0 §8.14 and associate Figures and Tables §8.13 p.8.15-2 to 8.15-5 WEC DA Supplement, §2.12, p. 23 to 31	<u>Yes</u> No	See below.
Appendix B (g) (14) (A)	All information required by the Regional Water Quality Control Board in the region where the project will be located to apply for:			
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; and	<u>WEC DA Supplement, WR-1 Response, p. 23</u>	<u>Yes</u> No	Additional information on back up disposal alternatives (e.g., discharge to the City sewer system, etc.) in the event of a ZLD system failure is needed to determine applicability of Waste Discharge Requirements.
Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	P. 8.13-5 to 8.13-8, 8.14-16 to 8.14-17 Figure 8.14-4 <u>WEC DA Supplement, WR-7, 8, 9, 10, 11 Responses, p.26-28</u>	<u>Yes</u> No	See below comments regarding drainage and stormwater.
Appendix B (g) (14) (B)	A description of the hydrologic setting of the project. The information shall describe, in writing and on maps at a scale of 1:24,000, the chemical and physical characteristics of the following water bodies that may be affected by the proposed project:			
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	p. 8.15-2, 8.15-4, 8.14-2 Figure 8.15-2 <u>WEC DA Supplement, WR-2, p. 23, Table 8.14-9 and 8.14-10, Figure 8.4-2R</u>	<u>Yes</u> No	Because the project proposes to discharge stormwater to the shallow aquifer through a percolation pond, and use potable water drawn from local wells for cooling water during the "bridge" period, please provide the chemical characteristics of both the shallow and deep aquifers. Please provide a revised Figure 8.14-2 with corrected scale.

Adequacy Issue: Adequate Inadequate
 Technical Area: Water Resources
 Project Manager: Matt Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12.16.02
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 Technical Senior: Dick Anderson

Project: Walnut Energy Center - TID
 Docket: 02-AFC-4

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) (ii)	Surface water bodies; and	p.8.2-5, 8.14-1 & 8.14-9	Yes	
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	p.2-20, 8.14-10 Figure 8.14-3	Yes	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	p.2-8 to 2-14 <u>WEC DA Supplement</u>	<u>Yes No</u>	<u>See below</u>
Appendix B (g) (14) (C) (i)	Source of the water and the rationale for its selection, and if fresh water is to be used for power plant cooling purposes, a discussion of all other potential sources and an explanation why these sources were not feasible;	p.2-8 to 2-11, 2-26 p.8.14-11 to 8.14-15 App. 8.14A & B <u>WEC DA Supplement, WR-3, p. 23</u>	<u>Yes No</u>	Please provide information on the source of construction related water supplies and a discussion of other possible sources.
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	p.8.14-11 to 8.14-14 <u>WEC DA Supplement, WR-4, p. 24</u>	<u>Yes No</u>	Please provide the physical and chemical characteristics of the City potable water supply. Please provide the physical and chemical characteristics of the wastewater streams that will be directed to the wastewater storage tank.
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; and	Tables 2.2-1, 8.14-11 p. 8.13-6 to 8.13-10 <u>WEC DA Supplement, WR-5, p. 24 & 25</u>	<u>Yes No</u>	Please provide an anticipated peak daily and average demand (expressed as mgd and gpm) for potable water demand for both "bridge" and back-up conditions. Include in this information the peak annual back-up water demand. Please clarify the anticipated annual average and peak annual water demand for the project. If these quantities are the same, please explain why. Please provide the average and maximum daily and annual water demand and waste water discharge for the construction phase.
Appendix B (g) (14) (C) (iv)	A description of all facilities to be used in water conveyance, treatment, and discharge. Include a water mass balance diagram.	p.2-9 to 2-13 §7.0 Figure 2.2-6a & b <u>WEC DA Supplement, WR-6, p. 25 & 26</u>	<u>Yes No</u>	Please provide a description of the waste storage tanks and structures, including any best management practices (BMPs) that may be employed to address possible spills or leaks that may occur. Please describe where and how the salt cake may be stored and how frequently removal off-site is expected. Please describe back-up wastewater disposal systems or methods in the event of a ZLD system disruption.

Adequacy Issue: Adequate Inadequate
 Technical Area: Water Resources
 Project Manager: Matt Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12.16.02
 Technical Staff: M. Lorraine White
 Technical Senior: Dick Anderson

Project: Walnut Energy Center - TID
 Docket: 02-AFC-4

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) (D)	A description of pre-, and post-construction runoff and drainage patterns, including:	p.2-13, 8.14-16 & 8.14—17 <u>WEC DA Supplement, WR-7, p. 26</u>	<u>Yes</u> No	Please provide a diagram and description of current, pre-construction drainage patterns for the entire 69 acres of the project site and highlight existing irrigation drainage facilities and discharge points.
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	p.8.14-16 <u>WEC DA Supplement, WR-8, p. 27</u>	<u>Yes</u> No	Please provide storm runoff patterns for properties immediately adjacent to the proposed project site and linear facilities.
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	p.8.14-16 & 8.14-17 Figure 8.14-4 <u>WEC DA Supplement, WR-9, p. 27</u>	<u>Yes</u> No	Please describe drainage facilities and design criteria to be used during construction, including the entire 69 acres of the project site and all linear facilities.
Appendix B (g) (14) (E)	An assessment of the effects of the proposed project on water resources. This discussion shall include:			
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source;	p.8.14-12 to 8.14-15, 8.14-18 & 8.14-19 <u>WEC DA Supplement, WR-10, p. 27 & 28</u>	<u>Yes</u> No	Please provide an assessment of the construction related impacts of the proposed project on surface and groundwater water supplies and other users of these supplies.
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	p.8.14-18 to 8.14-19 <u>WEC DA Supplement, WR-11, p. 28</u>	<u>Yes</u> No	Please provide an assessment of the construction related impacts of the proposed project on surface and groundwater water quality.
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	p.8.14-20	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;	Tables 8.14-1, 8.14-2, 8.14-8 & 1F p.8.14-2 to 8.14-9	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Water Resources
 Project Manager: Matt Trask

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12.16.02
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Project: Walnut Energy Center - TID
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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 (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits 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 8.14-1, 8.14-8 & 1F	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 8.14-1 p. 8.14-16 to 20	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Tables 8.14-1, 8.14-8, 1F & 1G	Yes	
Appendix B (h) (4)	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.	Tables 8.14-1, 8.14-8 & 1F	Yes	