

# Memorandum

**Date :** January 28, 2004  
**Telephone:** (916) 651-8853  
**File:** Roseville Energy Park

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

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

**Subject:** **LOS ESTEROS CRITICAL ENERGY FACILITY 2 DATA ADEQUACY  
RECOMMENDATION (03-AFC-2)**

We have reviewed the Los Esteros Critical Energy Facility 2 (LECEF) Application for Certification (AFC) filed by Los Esteros Critical Energy Facility, LLC, on December 30, 2003. The applicant proposes to recertify the current license for the 180 MW natural gas-fired simple cycle Los Esteros Critical Energy Facility (Phase 1), and to license the conversion of the project to combined cycle, thereby adding 140 MW. All of the new equipment will be installed within the foot print of the existing LECEF facility. Under the urgency provisions of SB 28X, the Energy Commission certified the existing plant for three years on July 2, 2002.

Staff has completed its data adequacy review of the AFC and does not believe it meets the requirements of Title 20, section 1704, Appendix B for the 12-month process. Therefore, we recommend that the Energy Commission find the AFC inadequate and adopt the attached list of deficiencies. Of the 23 technical disciplines reviewed, we believe the information contained in the AFC is deficient in 14 areas. The sections of the AFC that require additional information to meet data adequacy for the 12-month process are: Air Quality, Biological Resources, Cultural Resources, Efficiency, Geological Hazards, Noise, Paleontological Resources, Project Overview, Reliability, Socioeconomics, Soils, Transmission System Engineering, Water Resources, and Worker Safety and Fire Protection.

Attached is a summary table and data adequacy worksheets for all technical disciplines. The worksheets for the aforementioned sections identify the additional information that we believe is necessary to fulfill the AFC data adequacy requirements.

At the Energy Commission's business meeting on February 4, 2004, I will recommend that the Energy Commission adopt the list of deficiencies and not accept the AFC until the additional information specified in the data adequacy worksheets is supplied.

William J. Keese, Chairman  
Arthur H. Rosenfeld, Ph.D.  
James D. Boyd  
John L. Geesman  
January 28, 2004  
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If you have any questions, please call Bob Worl, the Energy Commission's Project Manager, at (916) 651-8853.

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ROBERT L. THERKELSEN  
Executive Director

Attachments

**ATTACHMENT A  
OVERVIEW OF ENERGY COMMISSION STAFF'S  
DATA ADEQUACY DETERMINATION  
LOS ESTEROS CRITICAL ENERGY FACILITY 2  
03-AFC-2**

<b>TECHNICAL AREA</b>	<b>ATTACHMENT B PAGE NO</b>	<b>ADEQUATE ?</b>
AIR QUALITY.....	1	NO
ALTERNATIVES.....	6	YES
BIOLOGICAL RESOURCES.....	7	NO
CULTURAL RESOURCES.....	13	NO
EFFICIENCY.....	16	NO
FACILITY DESIGN.....	18	YES
GEOLOGICAL HAZARDS.....	21	NO
HAZARDOUS MATERIALS HANDLING.....	23	YES
LAND USE.....	25	YES
NOISE.....	28	NO
PALEONTOLOGICAL RESOURCES.....	31	NO
PROJECT OVERVIEW.....	34	NO
PUBLIC HEALTH.....	37	YES
RELIABILITY.....	39	NO
SOCIOECONOMICS.....	41	NO
SOILS.....	46	NO
TRAFFIC AND TRANSPORTATION.....	48	YES
TRANSMISSION LINE SAFETY AND NUISANCE.....	51	YES
TRANSMISSION SYSTEM ENGINEERING.....	53	NO
VISUAL RESOURCES.....	56	YES
WASTE MANAGEMENT.....	59	YES
WATER RESOURCES.....	62	NO
WORKER SAFETY.....	67	NO

**ATTACHMENT B**

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

**Los Esteros Critical Energy Facility 2  
03-AFC-2**

January 28, 2004

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 14, 2004

Technical Area: **Air Quality**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Gabriel D. Taylor

Project Manager: Robert Worl

Docket: 03-AFC-02

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.	2.0 (pg. 2-1) 8.1.1 (pg. 8.1-1) 8.1.2 (pg. 8.1-10) 8.1.6.1 (pg. 8.1-65) 8.1.6.2 (pg. 8.1-70) Table 8.1-21 (pg. 8.1-23) Table 8.1-24 (pg. 8.1-25) Table 8.1-43 (pg. 8.1-44) Table 8.1-47 (pg. 8.1-48)	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.	"Application to the BAAQMD for a Determination of Compliance and Authority to Construct at the LECEF"	No	Please submit a District Completeness Letter. The BAAQMD received the application on January 14, 2004. According to District Rule 2-2-402, the district is allowed 15 working days (i.e. until February 5) to file a Completeness Letter.
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.	Table 8.1-11 (pg. 8.1-11) Table 8.1-A1-1 Table 8.1-A2-2 Table 8.1-B1-1 Table 8.1-36 (pg. 8.1-32)	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	8.1.2.4 (pg. 8.1-28) 8.1.3.4 (pg. 8.1-50) 8.1.6 (pg. 8.1-65) Table 8.1-57 (pg. 8.1-72)	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.	8.1.2.2 (pg. 8.1-10) 8.1.3.2 (pg. 8.1-29) Table 8.1-A1-2 Table 8.1-A2-2	Yes	

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

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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) (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.	8.1.2.2 (pg. 8.1-10) 8.1.3.2 (pg. 8.1-29) Table 8.1-15 (pg. 8.1-13) Table 8.1-39 (pg. 8.1-34) Table 8.1-A1-2 Table 8.1-A2-2	Yes	
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.	Table 8.1-18 (pg. 8.1-15) Table 8.1-37 (pg. 8.1-32)	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.	8.1.1.2 (pg. 8.1-3) Table 8.1-2 (pg. 8.1-6) through Table 8.1-8 (pg. 8.1-9) Figure 8.1-11 through Figure 8.1-22	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.	Table 8.1-wo CD-ROMs	Yes	

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Revision No. 0 Date January 14, 2004

Technical Area: **Air Quality**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Gabriel D. Taylor

Project Manager: Robert Worl

Docket: 03-AFC-02

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) (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.	8.1.1.1 (pg. 8.1-1) 8.1.1.2 (pg. 8.1-3) Table 8.1-wo CD-ROMs Figure 8.1-6a through Figure 8.1-10e	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:	---	---	---
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 (PM10) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NOx), sulfur dioxide (SO2), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM10)] from construction-related equipment;	8.1.2.1 (pg. 8.1-10) 8.1.3.1 (pg. 8.1-28)	Yes	

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

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Docket: 03-AFC-02

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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) (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 (NOx, SO2, CO and PM10) 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	8.1.2.2 (pg. 8.1-10) 8.1.3.2 (pg. 8.1-29) Table 8.1-21 (pg. 8.1-23) Table 8.1-24 (pg. 8.1-25) Table 8.1-43 (pg. 8.1-44) Table 8.1-46 (pg. 8.1-47)	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 8.1-F1 Appendix 8.1-F2	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;	8.1.6.2 (pg. 8.1-70)	Yes	
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions; and	Table 8.1-58 (pg. 8.1-73) through Table 8.1-61 (pg. 8.1-75)	Yes	
Appendix B (g) (8) (J) (iii)	Method of emission reduction.	Table 8.1-58 (pg. 8.1-73) through Table 8.1-61 (pg. 8.1-75)	Yes	

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 14, 2004

Technical Area: **Air Quality**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Gabriel D. Taylor

Project Manager: Robert Worl

Docket: 03-AFC-02

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) (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.	Figure 8.1-1 (Large Format Map)	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 8.1-52 (pg. 8.1-60)	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 8.1-53 (pg. 8.1-65)	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	8.1.4 (pg. 8.1-50)	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 8.1-53 (pg. 8.1-65)	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 8.1-52 (pg. 8.1-60)	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 13, 2004

Technical Area: Alternatives

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Robert Worl

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (D)	A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant.	Page 9-1, Section 9.0 Chapter 9.0	Yes	
Appendix B (f) (1)	A discussion of the range of reasonable alternatives to the project, or to the location of the project, including the no project alternative, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and an evaluation of the comparative merits of the alternatives. In accordance with Public Resources Code section 25540.6(b), a discussion of the applicant's site selection criteria, any alternative sites considered for the project, and the reasons why the applicant chose the proposed site.	Pages 9-1 through 9-4, Chapter 9.0	Yes	
Appendix B (f) (2)	An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1).	Pages 9-1 through 9-4, Chapter 9.0	Yes	

Adequacy Issue: Adequate            Inadequate **x**  
 Technical Area: **Biological Resources**  
 Project Manager: Robert Worl

**DATA ADEQUACY WORKSHEET**

Project: Los Esteros Critical Energy Facility 2  
 Docket: 03-AFC-03

Revision No.   0   Date   1/15/2004  

Technical Staff: Natasha Nelson  
 Technical Senior: Jim Brownell

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)	<p>...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.</p>	<p><b><u>Existing site conditions:</u></b>            Section 8.2.1, p. 8.2-1;            Section 8.2.1.10, p. 8.2-15;            and Tables 8.2-2 and 8.2-3,            p. 8.2-16</p> <p><b><u>Construction impacts</u></b>            (Direct, Indirect):            Section 8.2.3.1, pp. 8.2-20            and 8.2-21</p> <p><b><u>Operation impacts:</u></b>            (Direct, Indirect):            Section 8.2.2.1, pp. 8.2-17            to 8.2-21; Section 8.2.3.2,            pp. 8.2-21 and 8.2-22</p> <p><b><u>Maintenance impacts</u></b>            (Direct, Indirect):            Section 8.2.2.1, p. 8.2-20;            Section 8.2.3.2, p. 8.2-22</p> <p><b><u>Cumulative impacts:</u></b>            Section 8.2.5, p. 8.2-22</p> <p><b><u>Measures proposed to mitigate environmental impacts:</u></b>            None</p> <p><b><u>Effectiveness of mitigation proposals and plans to monitor for effectiveness:</u></b>            None</p>	<p>No</p>	<p>The applicant performed a source test of start-up emission and discovered that the estimate of emissions was incorrect in the original AFC. The estimate of emissions from start-up and shut down has nearly quadrupled (see Section 8.1, page 8.1-13). Phase 1 calculations of nitrogen emissions did not account for this large increase. The Phase 1 calculations by the applicant are still based only on baseload for 8760 hours without any accounting for start-up and shutdown hours. The Phase 1 nitrogen emission should be around 93 tons per year (TPY) not 74.9 TPY, or about 20% higher. Please provide revised ISCST3 nitrogen deposition modeling scenarios using the worst case scenario (as defined in the original proceedings' Data Requests 147 to 149) for the following case studies:</p> <ol style="list-style-type: none"> <li>1. Maximum predicted emissions from Phase 1 operation</li> <li>2. Actual emissions from the past 365 days of operation</li> <li>3. Maximum predicted emissions from Phase 2.</li> </ol> <p>Provide a discussion and analysis of the case studies and explain any differences in outcomes.</p> <p>Please discuss any measures proposed to mitigate adverse impacts to biological resources (see Appendix B(h)(4)).</p>

Adequacy Issue: Adequate        Inadequate        **x**

**DATA ADEQUACY WORKSHEET**

Revision No.   0   Date   1/15/2004  

Technical Area:   Biological Resources    
 Project Manager:   Robert Worl  

Project:   Los Esteros Critical Energy Facility 2    
 Docket:   03-AFC-03  

Technical Staff:   Natasha Nelson    
 Technical Senior:   Jim Brownell  

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) (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.	Section 8.2.1, pp. 8.2-1 to 8.2-3; Figures 8.2-1, 8.2-3 and 8.2-3	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.	<p><b>Discussion and Map:</b>            Section 8.2.1.10, pp. 8.2-15 to 8.2-16; Figure 8.2-3            Version 2 at 1:6000 (this map was submitted to staff separately)</p> <p><b>List of species observed:</b>            Tables 8.2-2 and 8.2-3, p. 8.2-16</p> <p><b>List of potentially occurring species:</b>            Table 8.2-1, pp. 8.2-5 to 8.2-12; Volume II: Appendix 8.2-B</p>	Yes	
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.	<p><b>Description of surveys:</b>            Section 8.2.1.9, pp. 8.2-14 to 8.2-15.</p> <p><b>Survey Forms:</b>  <b>Volume II:</b>            Appendix 8.2-B            Appendix 8.2-C</p> <p><b>Names/qualifications:</b>  <b>Volume II:</b>            Appendix 8.2-A</p>	Yes	

Adequacy Issue: Adequate            Inadequate        **x**

**DATA ADEQUACY WORKSHEET**

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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) (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.	<u>Permanent and Temporary Impacts:</u> Sections 8.2.2 and 8.2.3, pp. 8.2-16 to 8.2-22  <u>Cooling Tower Drift:</u> Section 8.2.2.1, p. 8.2-17 Section 8.2.3.2, p. 8.2-21  <u>Use and Discharge of water:</u> Section 8.2.2.1, p. 8.2-18 Section 8.2.3.2, p. 8.2-21  <u>Once-through cooling discussion:</u> Not Applicable	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;	Section 8.2.4, p. 8.2-22	No	In the original proceeding, the operation and closure of LECEF required mitigation measures in order to reduce impacts to less than significant levels. The applicant should submit a discussion of measures that apply to the operation and closure of the Phase 1 continued operation. The applicant should propose any new measures that may be required as a result of the proposed changes in Phase 1 operation [see Appendix B (g) (1)] and Phase 2 construction and operation.
Appendix B (g) (13) (E) (ii)	All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and	None	No	See Appendix B (g) (13) (E) (i)
Appendix B (g) (13) (E) (iii)	Any educational programs proposed to enhance employee awareness in order to protect biological resources.	None	No	See Appendix B (g) (13) (E) (i)

Adequacy Issue: Adequate            Inadequate   **x**  

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 Project Manager:   Robert Worl  

Project:   Los Esteros Critical Energy Facility 2    
 Docket:   03-AFC-03  

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 Technical Senior:   Jim Brownell  

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.	None	No	See Appendix B (g) (13) (E) (i)
Appendix B (g) (13) (G)	A discussion of native fish and wildlife species of commercial and/or recreational value that cobpctd by the project.	Section 8.2.1.8, p. 8.2-14	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;	Section 8.2.1.6, pp. 8.2-3, 8.2-4, and 8.2-13; Table 8.2.1, pp. 8.2-5 to 8.2-12	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	Areas <b><u>of critical concern:</u></b> Sections 8.2.1.3 and 8.2.1.4, p. 8.2-3 <b><u>Species of special concern:</u></b> Section 8.2.1.6, pp. 8.2-3, 8.2-4, and 8.2-13; Section 8.2.1.7, p. 8.2-14; Table 8.2.1, pp. 8.2-5 to 8.2-12	Yes	
Appendix B (g) (13) (H) (iii)	Species or habitats identified by legislative acts as requiring protection.	Table 8.2.1, pp. 8.2-5 to 8.2-12	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 8.2-4, pp. 8.2-24 to 8.2-26	No	Provide a revised Table 8.2-4 which includes reference to page numbers (section numbers can be accepted) in the application wherein conformance is discussed. This may require inserting discussion into the text which will be covered by the applicant's response to subsection (h) (2).

Adequacy Issue: Adequate            Inadequate       **x**      

**DATA ADEQUACY WORKSHEET**

Revision No.       0       Date       1/15/2004      

Technical Area:       **Biological Resources**        
 Project Manager:       Robert Worl      

Project:       Los Esteros Critical Energy Facility 2        
 Docket:       03-AFC-03      

Technical Staff:       Natasha Nelson        
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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.	Table 8.2-4, pp. 5.2-24 to 8.2-26	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 8.2.6, p. 8.2-22	No	Section 8.2.6 states the applicant has taken measures to mitigate impacts (p. 8.2-22), but Section 8.2.4 says no measures are required (p. 8.2-22). However, Table 8.2-4 stated the applicant is in compliance with the Federal Endangered Species Act because of "avoidance". Please provide a discussion of the mitigation and avoidance measures that are proposed by the applicant for Phase 1 continued operation and the mitigation and any avoidance measures that are proposed for Phase 2. Provide revisions to Table 8.2-4 as needed.
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 8.2-4, p. 8.2-24	No	Provide the title and address of the individuals identified as agency contacts.

Adequacy Issue: Adequate            Inadequate        **x**

**DATA ADEQUACY WORKSHEET**

Revision No.   0   Date   1/15/2004  

Technical Area:   Biological Resources    
 Project Manager:   Robert Worl  

Project:   Los Esteros Critical Energy Facility 2    
 Docket:   03-AFC-03  

Technical Staff:   Natasha Nelson    
 Technical Senior:   Jim Brownell  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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 8.2.7, p. 8.2-23	No	<p>There is no discussion of the applicant's initial steps to contact U.S. Fish and Wildlife Service (USFWS) regarding a permit to continue operations of Phase 1 for more than the 3 years with different nitrogen emission parameters nor for a permit to increase nitrogen emissions in Phase 2. The USFWS has enforcement responsibility through Section 9 of the Federal Endangered Species Act that prohibits "take" of endangered species without a proper permit. Provide a schedule and summary of your plans to obtain a permit from USFWS, if required.</p> <p>The AFC states a PSD is not required. Staff's Phase 2 emissions calculation is greater than 100 TPY (1105.6 lbs/day * 365 days * 2000 lbs/ton = 100.8 TPY) which would qualify the project for PSD permit review and because this is a federal permit, possible consultation with the USFWS. Provide a discussion of how operation's maximum yearly emissions will be kept below 100 TPY in perpetuity (without variance). Provide a summary of discussions you have had with or between BAAQMD and the USFWS on the increased nitrogen emissions issue.</p>

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Cultural Resources**  
 Project Manager: Robert Worl

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04  
 Technical Staff: Al Schwitalla;  
Dorothy Torres  
 Technical Senior: Dale Edwards

Project: Los Esteros Critical Energy Facility 2  
 Docket: 03-AFC-02

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.	Vol I, Pages 2.2 to 2.29 Vol I, Page 8.3-10 Vol I, Pages 8.3-10 to 8.3-13 Vol1, Pages 8.3-12 to 8.3-13	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.	Vol I, Pages 8.3-1 to 8.3-6.	No	Please add ethnographic territories to Figure 8.3-1.
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.	Vol I, Pages 8.3-6 to 8.3-10.	No	As agreed, please provide a site map 1/2 inch = 500 feet, that depicts the Phase 2 construction and laydown areas, in relation to the existing Phase 1 LECEF facility. Include the 13 acre construction laydown area to the south of the existing facility. Please add the location of any previously identified cultural resources. (Submit under confidential cover, if necessary).

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Cultural Resources**  
 Project Manager: Robert Worl

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04  
 Project: Los Esteros Critical Energy Facility 2  
 Technical Staff: Al Schwitalla;  
Dorothy Torres  
 Technical Senior: Dale Edwards

Project: Los Esteros Critical Energy Facility 2

Docket: 03-AFC-02

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (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.	Vol I, Page 8.3-4.	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.	Vol I, Page 8.3-9. Vol II, Appendix 8.3	No	Please provide copies of letters sent to and any responses from Native American representatives who may have an interest in heritage lands.
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.	Vol I, Pages 8.3-10 to 8.3-13.	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Cultural Resources**  
 Project Manager: Robert Worl

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04  
 Technical Staff: Al Schwitalla;  
Dorothy Torres  
 Technical Senior: Dale Edwards

Project: Los Esteros Critical Energy Facility 2  
 Docket: 03-AFC-02

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;	Vol I, Pages 8.3-13 to 8.3-16. Section 8.3.6	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.	Vol I, Pages 8.3-16.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Vol I, Pages 8.3-13 to 8.3-17	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.	Vol I, Page 8.3-16. Table 8.3-2.	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.	Vol, Page 8.3-16. to 8.3-17	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date Jan 13, 2004  
 Technical Area: **Efficiency** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Shahab Khoshmashrab  
 Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.4, 1.6.4, 2.3.3, 2.7.1, 9.0, 10.3; Figure 2.4-4	Yes	
Appendix B (i) (4) (A)	Heat and mass balance diagrams for design conditions for each mode of operation.	Figure 2.4-4	No	Please provide the numerical values that are missing from Figure 2.4-4. Also, state net plant heat rate in Btu/kWh for each mode of operation.
Appendix B (i) (4) (B)	Annual fuel consumption in BTUs for each mode of operation.	§§ 2.3.3, 10.3	Yes	
Appendix B (i) (4) (C)	Annual net electrical energy produced in MWh for each mode of operation.	§ 10.3	Yes	
Appendix B (i) (4) (D)	Number of hours the plant will be operated in each mode of operation in each year.	§§ 2.7.1, 10.3	Yes	
Appendix B (i) (4) (E)	If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards.	N/A	N/A	
Appendix B (i) (4) (F)	A discussion of alternative generating technologies available for the project, including the projected efficiency of each, and an explanation why the chosen equipment was selected over these alternatives.	§§ 1.4, 1.6.4, 9.0	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date Jan 13, 2004  
 Technical Area: **Efficiency** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Shahab Khoshmashrab  
 Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (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;	N/A	N/A	
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.	N/A	N/A	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	N/A	N/A	
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	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	N/A	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: **Facility Design**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Kevin Robinson

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	See Water Resources		
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	See Water Resources		
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	See Water Resources		
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	See Water Resources		
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	See Water Resources		
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 8.6-2, Table 10.4-1	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.	Table 8.6-2, Table 10.4-1	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	§§ 2.8, 6.4, 6.5, 8.6.6, 10, Appendices 10A – 10D	Yes	

Adequacy Issue: Adequate   **X**   Inadequate       

**DATA ADEQUACY WORKSHEET**

Revision No.   0   Date   1/13/04  

Technical Area:   **Facility Design**  

Project:   Los Esteros Critical Energy Facility 2  

Technical Staff:   Kevin Robinson  

Project Manager:   Robert Worl  

Docket:   03-AFC-2  

Technical Senior:   Steve Baker  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (3)	The name, title, telephones number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 6.5-1, Table 8.6-3, Table 10.5-1	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 8.6-4	Yes	
Appendix B (i) (1) (A)	A description of the site conditions and investigations or studies conducted to determine the site conditions used as the basis for developing design criteria. The descriptions shall include, but not be limited to, seismic and other geologic hazards, adverse conditions that could affect the project's foundation, adverse meteorological and climatic conditions, and flooding hazards, if applicable.	§§ 2.6, 2.6.1, 8.4, 8.4.1.4, 8.11, 8.15.1.1, 8.15.1.3	Yes	
Appendix B (i) (1) (B)	A discussion of any measures proposed to improve adverse site conditions.	§§ 8.4.4, 8.11.5	Yes	
Appendix B (i) (1) (C)	A description of the proposed foundation types, design criteria (including derivation), analytical techniques, assumptions, loading conditions, and loading combinations to be used in the design of facility structures and major mechanical and electrical equipment.	Appendices A-D	Yes	
Appendix B (i) (1) (D)	For each of the following facilities and/or systems, provide a description including drawings, dimensions, surface-area requirements, typical operating data, and performance and design criteria for protection from impacts due to adverse site conditions:	---	---	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: **Facility Design**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Kevin Robinson

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (D) (i)	The power generation system;	§§ 2.3, 2.3.1.2, 2.4, 2.4.1, 2.4.1.1, 2.4.1.2, 2.7.2.1, Fig. 2.3-1, Fig. 2.3-2, Fig. 2.3-3, Fig. 2.3-4, Fig. 2.4-1, Fig. 2.4-2, Fig. 2.4-3, Fig. 2.4-4	Yes	
Appendix B (i) (1) (D) (ii)	The heat dissipation system;	§§ 2.3, 2.4, 2.4.1, 2.4.5, 2.7.2.4, Fig. 2.3-2, Fig. 2.3-3, Fig. 2.3-4, Fig. 2.4-2 Fig. 2.4-3, Fig. 2.4-4	Yes	
Appendix B (i) (1) (D) (iii)	The cooling water supply system, and, where applicable, pre-plant treatment procedures;	§§ 2.3, 2.3.4, 2.3.4.1, 2.3.5, 2.4, 2.4.1, 2.4.4, 2.7.4, 7.0, 8.15, Fig. 2.3-2, Fig. 2.3-3, Fig. 2.3-5a, Fig. 2.3-5b, Fig. 2.4-2, Fig. 2.4-3, Fig. 2.4-5a, Fig. 2.4-5b, Appendix 7	Yes	
Appendix B (i) (1) (D) (iv)	The atmospheric emission control system;	§§ 2.3, 2.3.1.3, 2.3.8, 2.4.1, 2.4.8, 8.1, Appendix 8.1	Yes	
Appendix B (i) (1) (D) (v)	The waste disposal system and on-site disposal sites;	§§ 2.3.6, 2.3.7, 2.4.6, 2.4.7, 8.5, 8.14, Appendices 8.5 and 8.14	Yes	
Appendix B (i) (1) (D) (vii)	The geothermal resource conveyance and re-injection lines (if applicable);	N/A	N/A	
Appendix B (i) (1) (D) (viii)	Switchyards/transformer systems; and	§§ 2.3.2, 2.4, 2.4.2, 5.0, Fig. 2.3-1, Fig. 2.3-3, Fig. 2.4-1, Fig. 2.4-3, Appendix 5	Yes	
Appendix B (i) (1) (D) (ix)	Other significant facilities, structures, or system components proposed by the applicant.	N/A	N/A	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**      **DATA ADEQUACY WORKSHEET**      Revision No.   0   Date   January 12, 2004    
 Technical Area: **Geological Hazards**      Project:   Los Esteros Critical Energy Facility 2        Technical Staff:   Patrick A. Pilling, Ph.D.    
 Project Manager:   Robert Worl        Docket:   03-AFC-2        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) (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 8.4-1 to 8.4-6; Sections 8.4.1 to 8.4.4	Yes	
Appendix B (g) (17) (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities;	Pages 8.4-1 to 8.4-4; Section 8.4.1	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.	Pages 8.4-1 to 8.4-4; Section 8.4.1 and Figure 8.4-1	No	Phase 2: Geologic map should be drafted and presented in a scale of 1:24,000 and with a radius of at least 2 miles from the project site.
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 8.4-4; Section 8.4.1.5	No	Phase 2: Provide a discussion of the techniques used to identify and evaluate potential geologic resources.
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 8.4.6; Section 8.4.5	No	Phase 2: Provide a table identifying applicable project-related LORS and referencing specific AFC pages.

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 12, 2004

Technical Area: **Geological Hazards**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Patrick A. Pilling, Ph.D.

Project Manager: Robert Worl

Docket: 03-AFC-2

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 8.4-6; Section 8.4.6; Table 8.4-2	No	Phase 2: Please provide specific jurisdiction, and/or any required permitting information for each contact. All agencies mentioned in the text are not included in the table.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 8.4-6; Section 8.4.6	No	Phase 2: Describe how the proposed project will conform with applicable LORS.
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.	Page 8.4-6; Section 8.4.6; Table 8.4-2	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: Hazardous Materials

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Geoff Lesh

Project Manager: Robert Worl

Docket: 03-AFC-02a

Technical Senior: RickTyler

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 8.5	Yes	
Appendix B (g) (10) (A)	A list of all materials used or stored on-site which are hazardous or acutely hazardous, as defined in Title 22, California Code of Regulations, § 66261.20 et seq., and a discussion of the toxicity of each material.	Table 8.5-2, Table 8.5-5, Table 8.5-6	Yes	
Appendix B (g) (10) (B)	A map at a scale of 1:24,000 depicting the location of schools, hospitals, day-care facilities, emergency response facilities and long-term health care facilities, within the area potentially affected by any release of hazardous materials.	Figure 8.9-1a, Figure 8.9-1b	Yes	
Appendix B (g) (10) (C)	A discussion of the storage and handling system for each hazardous material used or stored at the site.	Section 8.5.7.2	Yes	
Appendix B (g) (10) (D)	The protocol that will be used in modeling potential consequences of accidental releases that could result in off site impacts. Identify the model(s) to be used, a description of all input assumptions, including meteorological conditions. The results of the modeling analysis can be submitted after the AFC is complete.	Section 8.5.4	Yes	
Appendix B (g) (10) (E)	A discussion of whether a risk management plan (Health and Safety Code § 25531 et seq.) will be required, and if so, the requirements that will likely be incorporated into the plan.	Section 8.5.7.4, Section 8.5.8.2	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: Hazardous Materials

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Geoff Lesh

Project Manager: Robert Worl

Docket: 03-AFC-02a

Technical Senior: RickTyler

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (10) (F)	A discussion of measures proposed to reduce the risk of any release of hazardous materials.	Section 8.5.4, Section 8.5.7,	Yes	
Appendix B (g) (10) (G)	A discussion of the fire and explosion risks associated with the project.	Section 8.5.5	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;	Section 8.5.8 Table 8.5-7	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 8.5-8	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 8.5.8	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 8.5-8	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 8.5.10	Yes	

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/09/04

Technical Area: **Land Use**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: James Adams

Project Manager: Robert Worl

Docket: 03-AFC-02

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) (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. 8.6-1 through 8.6-17 Table 8.6-1, PP. 8.6-10 through 6-13 Table 8.6-2. Pg. 8.6-15 Table 8.6-3, Pg. 8.6-16 Figures 8.6-1 & 6-2 Section 8.6	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:	PP. 8.6-2 & 3 Figure 8.6-1 Section 8.6.1.2 Figure 8.6-2	Yes	
Appendix B (g) (3) (A) (i)	An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;	PP. 8.6-1 through 6-2 Section 8.6.1.1	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any trends in recent zoning changes and potential future land use development;	PP. 8.6-4 through 6-8 Sections 8.6.1.3 and 1.4	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	PP. 8.6-7 through 6-9 Section 8.6.1.4	Yes	
Appendix B (g) (3) (A) (iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Figure 8.6-1 & 6-2 Section 8.6	Yes	

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/09/04

Technical Area: **Land Use**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: James Adams

Project Manager: Robert Worl

Docket: 03-AFC-02

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	PP. 8.6-9 through 6-16 Sections 8.6.6 Table 8.6-1, PP. 8.6-10 through 6-13, Section 8.6.3.1, Table 8.6-2, Pg. 8.6-15, Section 8.6.6.2 Table 8.6-4, Pg. 8.6-16	Yes	
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:	Figures 8.6-1 & 6-2	Yes	
Appendix B (g) (15) (B) (i)	Crop types, irrigation systems, and any special cultivation practices; and	PP. 8.6-2, Section 8.6.1.2	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.		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:		Yes	
Appendix B (g) (15) (C) (ii)	Direct and indirect effects on agricultural land uses; and		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 8.6-2, Pg. 8.6-15 Section 8.6.6.2	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/09/04

Technical Area: Land Use

Project: Los Esteros Critical Energy Facility 2

Technical Staff: James Adams

Project Manager: Robert Worl

Docket: 03-AFC-02

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) (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 8.6-2, Pg. 8.6-15 Section 8.6.6.2, Table 8.6-3	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 8.6-2, Pg. 8.6-15 Section 8.6.6.2	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 8.6-3, Pg. 8.6-16 Section 8.6.7	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.	PP. 8.6-16, Table 8.6-4, Section 8.6.8	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate   **x**        **DATA ADEQUACY WORKSHEET**      Revision No.   0        Date   January 13, 2004  

Technical Area:   **Noise**        Project:   Los Esteros Critical Energy Facility 2        Technical Staff:   Steve Baker  

Project Manager:   Robert Worl        Docket:   03-AFC-2        Technical Senior:   Steve Baker  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.1, 1.2, 2.2, 2.3.1.2, 2.3.3, 2.3.9, 2.3.10, 2.4, 2.4.9; Chapter 8.7; Appendix 8.7	No	Under the topic of projected construction noise impacts, please estimate and evaluate the magnitude and impact of steam blow noise on sensitive receptors.
Appendix B (g) (4) (A)	A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area impacted by the proposed project is that area where there is a potential increase of 5 dB(A) or more, during either construction or operation, over existing background levels.	Figure 8.7-1	Yes	
Appendix B (g) (4) (B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for duration at the applicant's discretion during the same 25-hour period. The results of the noise level measurements shall be reported in L <sub>eq</sub> (equivalent sound or noise level), L <sub>dn</sub> (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L <sub>10</sub> , L <sub>50</sub> , and L <sub>90</sub> values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported.	§ 8.7.2.1; Tables 8.7-3, 8.7-4; § 8.7.2.4; Tables 8.7-5, 8.7-6; § 8.7.3.1; Figures 8.7-2 thru 8.7-5; Appendices 8.7-A, 8.7-B	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate   **x**        **DATA ADEQUACY WORKSHEET**      Revision No.   0        Date   January 13, 2004  

Technical Area:   **Noise**        Project:   Los Esteros Critical Energy Facility 2        Technical Staff:   Steve Baker  

Project Manager:   Robert Worl        Docket:   03-AFC-2        Technical Senior:   Steve Baker  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (C)	A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.	§§ 8.7.2.4, 8.7.4.2; Tables 8.7-10, 8.7-11; Appendix 8.7-C	Yes	
Appendix B (g) (4) (D)	An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project.	§§ 8.7.3, 8.7.4; Tables 8.7-6, 8.7-7, 8.7-8, 8.7-9, 8.7-10, 8.7-11	No	Under the topic of projected construction noise impacts, please estimate and evaluate the magnitude and impact of noise from steam blows on sensitive receptors.
Appendix B (g) (4) (E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.	Tables 8.7-7, 8.7-9	Yes	
Appendix B (g) (4) (F)	The audible noise from existing switchyards and overhead transmission lines that would be affected by the project and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines.	N/A	N/A	
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;	§ 8.7.7.2; Table 8.7-13	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **x**      **DATA ADEQUACY WORKSHEET**      Revision No. 0      Date January 13, 2004

Technical Area: **Noise**      Project: Los Esteros Critical Energy Facility 2      Technical Staff: Steve Baker

Project Manager: Robert Worl      Docket: 03-AFC-2      Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (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 8.7-14	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	§§ 8.7.2.2, 8.7.2.4, 8.7.3, 8.7.4	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 8.7-14	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.	§ 8.7.7.3	Yes	

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 12, 2004

Technical Area: **Paleontological Resource**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Patrick A. Pilling, Ph.D.

Project Manager: Robert Worl

Docket: 03-AFC-2

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) (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 8.8-1 to 8.8-11; Sections 8.8.1 to 8.8.5	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 8.8-1 to 8.8-9; Sections 8.8.1	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 8.8-2 to 8.8-10; Sections 8.8.1.3 to 8.8.1.5	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 8.8-2 to 8.8-10; Section 8.8.1.3 to 8.8.1.5	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.		No	Phase 2: Please provide a paleontological resources (confidential) map at a scale of 1:24,000, showing all known nearby paleontological resource sites. If the map submitted for the earlier LECEF project is accurate, to scale, and contains the relevant information, please provide an appropriate reference.

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 12, 2004

Technical Area: **Paleontological Resource**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Patrick A. Pilling, Ph.D.

Project Manager: Robert Worl

Docket: 03-AFC-2

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.	Page 8.8-10 to 8.8-11; Section 8.8.5	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 8.8-12; Section 8.8.6.2; Table 8.8-2	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.		N/A	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pages 8.8-11 to 8.8-12; Section 8.8.6	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.		N/A	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 12, 2004

Technical Area: **Paleontological Resource**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Patrick A. Pilling, Ph.D.

Project Manager: Robert Worl

Docket: 03-AFC-2

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) (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 \_\_\_\_\_ Inadequate **X**      **DATA ADEQUACY WORKSHEET**      Revision No.   0   Date   January 13, 2004    
 Technical Area: **Project Overview**      Project:   Los Esteros Critical Energy Facility 2        Technical Staff:   Robert Worl    
 Project Manager:   Robert Worl        Docket:   03-AFC-2        Technical Senior:   Paul Richins  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.		NA	See Each Technical Section for Adequacy of This Item
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and		NA	See Each Technical Section for Adequacy of This Item
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference		NA	See Each Technical Section for Adequacy of This Item
Cal. Code Regs., tit. 20, § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	Chapter 8.0 Sections 8.1 through 8.16	Yes	
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply, water supply, pollution control systems, and other general characteristics.	Chapters 1.0 and 2.0	Yes	
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessors parcel numbers.	Page 2-1, Chapter 2.0	Yes	
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Page 1-1, 1-2, Figures 1.1-1 and 1.1-2 Chapter 1.0	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**      **DATA ADEQUACY WORKSHEET**      Revision No.   0        Date   January 13, 2004    
 Technical Area: **Project Overview**      Project:   Los Esteros Critical Energy Facility 2        Technical Staff:   Robert Worl    
 Project Manager:   Robert Worl        Docket:   03-AFC-2        Technical Senior:   Paul Richins  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Figures 1.1-3 and 1.1-4 Chapter 1.0	Yes	
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	Appendix 1 AFC Volume II	Yes	
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Page 1-6, Section 1.2 Chapter 1.0	Yes	
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Page 1-6, Section 1.3 Chapter 1.0	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Pages 1-2, 1-5, 1-6 Chapter 1.0, and, Pages 2-9, 2-13, 2-20 Chapter 2.0	Yes	
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Page 1-1, and 1-6, Chapter 1.0	Yes	
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Figures 2.3-1, 2.4-1 and Figures 8.6-1 through 8.6-3; Appendices 1-A, and 8.6-A	No	Maps at 1:24,000 (1" = 2,000') scale with information satisfying Appendix B(b)(1)(A) requirements including new or altered terrain features, proposed laydown area(s).

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**      **DATA ADEQUACY WORKSHEET**      Revision No.   0   Date   January 13, 2004    
 Technical Area: **Project Overview**      Project:   Los Esteros Critical Energy Facility 2        Technical Staff:   Robert Worl    
 Project Manager:   Robert Worl        Docket:   03-AFC-2        Technical Senior:   Paul Richins  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities;	Figure 2.4-2, Chapter 2.0	Yes	
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Pages 2-1 through 2-29 Chapter 2.0	Yes	
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s).	Figures 1.1-2 and Figures 8.6-1, 8.6-2, and 8.6-3	No	Maps at 1:24,000 (1" = 2,000') scale with information satisfying Appendix B(b)(2)(A) requirements, including final transmission interconnection(s), trails, bike and hiking paths, and other required App. B(b)(2)(A) features.
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	Figures 1.1-3, 1.1-4, Chapter 1.0	Yes	
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Chapter 4.0	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: Public Health

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Ramesh Sundareswaran

Project Manager: Robert Worl

Docket: 3-AFC-2

Technical Senior: Mike Ringer

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 8.9.1 to 8.9.3; 8.9.5	Yes	
Appendix B (g) (9) (A)	A list of all toxic substances emitted by the project under normal operating conditions, which may cause an adverse public health impact as a result of acute, chronic, or sub-chronic exposure and to which members of the public may be exposed. This list should include, at a minimum, any pollutants emitted by the project that are listed pursuant to Health and Safety Code § 25249.8.	Table 8.9-3	Yes	
Appendix B (g) (9) (B)	A protocol describing the analysis which the applicant will conduct to determine the extent of potential public exposure to substances identified in subsection (g)(9)(A) resulting from normal facility operation. The analysis itself can be submitted after the AFC is complete.	Sec 8.9.2.3 to 8.9.2.5; 8.9.3.3 to 8.9.3.5; Appendix 8.1	Yes	
Appendix B (g) (9) (C)	A map at a scale of 1:24,000, showing all terrain areas exceeding the elevation of the stack within a 10 mile radius of the facility.	Fig 8.9-2	Yes	
Appendix B (g) (9) (D)	A map at a scale of 1:24,000, showing the distribution of population and sensitive receptors within the area exposed to the substances identified in subsection (g)(9)(A).	Fig 8.9-1a, 8.9-1b	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: Public Health

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Ramesh Sundareswaran

Project Manager: Robert Worl

Docket: 3-AFC-2

Technical Senior: Mike Ringer

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 8.9-13	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 8.9-14	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sec 8.9.6	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.	Table 8.9-14	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.	Sec 8.9.7	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date January 13, 2004

Technical Area: **Reliability** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Shahab Khoshmashrab

Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.1, 2.1, 2.3, 2.3.1, 2.3.3, 2.3.4, 2.3.5, 2.3.6, 2.3.8, 2.4, 2.4.1, 2.4.3, 2.4.4, 2.4.5, 2.4.6, 2.4.8, 2.6, 2.7.2, 2.7.3, 2.7.4, 2.7.5, 6.0, 7.0, 8.1, 8.4, 8.14, 8.15, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.4	Yes	
Appendix B (i) (3) (A)	A discussion of the sources and availability of the fuel or fuels to be used over the estimated service life of the facilities.	§§ 1.1, 2.3, 2.3.3, 2.4.3, 2.7.3, 6.0, 10.2.1	Yes	
Appendix B (i) (3) (B)	A discussion of the anticipated service life and degree of reliability expected to be achieved by the proposed facilities based on a consideration of:	—	—	
Appendix B (i) (3) (B) (i)	Expected annual and lifetime capacity factors;	§§ 10.2.2	Yes	
Appendix B (i) (3) (B) (ii)	The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system;	§§ 1.1, 2.1, 2.3, 2.3.1, 2.3.4, 2.3.5, 2.3.6, 2.3.8, 2.4, 2.4.1, 2.4.5, 2.4.6, 2.4.8, 7.0, 8.1, 8.14, 10.2.4	Yes	
Appendix B (i) (3) (B) (iii)	Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability;	§§ 1.1, 2.3, 2.3.4, 2.4.4, 2.6, 2.7.2, 2.7.4, 7.0, 8.4, 8.15, 10.2.3; Appendix 7-A	Yes	
Appendix B (i) (3) (B) (iv)	Special design features adopted by the applicant or resource supplier to ensure power plant reliability; and	§§ 2.7.2, 2.7.5, 10.2	Yes	

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 13, 2004

Technical Area: **Reliability**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Shahab Khoshmashrab

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (3) (B) (v)	The expected power plant maturation period.	Not Found	No	Phase 1 and 2: Please describe the maturation period. For mature technologies, this may amount to the startup period.
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;	N/A	N/A	
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.	N/A	N/A	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	N/A	N/A	
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	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	N/A	

Adequacy Issue: Adequate  Inadequate  **DATA ADEQUACY WORKSHEET** Revision No. 0 Date 1/12/2004  
 Technical Area: **Socioeconomics** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Dr. Joseph Diamond  
 Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: 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.	8.10.1 , page 8.10-1. 8.10.3.1 , page 8.10-13. 8.10.3.2 pages 8.10-13&14. 8.10.4 , page 8.10-15	No	1. Please indicate what year the economic estimates are for. 2 a. Please estimate secondary impacts (indirect and induced) for construction and operation phases using a type II or type III multiplier 2 b. identify the economic model used (IMPLAN, REMI etc.).
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;	8.10.1.3 pages 8.10-2 to 4. Table 8.10-4 page 8.10-3. Table 8.10-5. page 8.10-4.	Yes	
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	8.10.1.1 8.10-1&8.10-2. Table 8.10-1. 8.10-2. Table 8.10-2 page 8.10-2. 8.10.5 pages 8.10-15&16.	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	Table 8.10-5. page 8.10-4. 8.10.1.3, page 8.10-3.	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/12/2004

Technical Area: **Socioeconomics**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Dr. Joseph Diamond

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: 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) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	Table 8.10-7. page 8.10-4.  Table 8.10-10 page 8.10-12.	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing; and	8.10.1.2 page 8.10-2.  Table 8.10-3 page 8.10-2.	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, for the duration of the project construction schedule.	8.10.1.5 page 8.10-7.  8.10.1.6 , pages 8.10-7 and 8.10-8.	Yes	
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project, including:			

Adequacy Issue: Adequate  Inadequate  **DATA ADEQUACY WORKSHEET** Revision No. 0 Date 1/12/2004  
 Technical Area: Socioeconomics Project: Los Esteros Critical Energy Facility 2 Technical Staff: Dr. Joseph Diamond  
 Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: 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) (i)	The number of workers to be employed each month by craft during construction and operation;	8.10.3.1 , page 8.10-11. Table 8.10-10 page 8.10-12. 8.10.2.2 , page 8.10-9.	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;	8.10.3.2 pages 8.12-7 to 8.12-10. 8.12.3.2 pages 8.12-10 to 8.12-11.	No	Phase 2: Please provide an estimate of the non-local construction workforce that will relocate in order to work on the project.
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	8.10.3.3 page 8.10-13. 8.10.3.4 page 8.10-13. 8.10.2.3 page 8.10-9.	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	8.10.3.5 page 8.10-9. 8.10.3.1 page 8.10-11.	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**      **DATA ADEQUACY WORKSHEET**      Revision No. 0      Date 1/12/2004

Technical Area: **Socioeconomics**      Project: Los Esteros Critical Energy Facility 2      Technical Staff: Dr. Joseph Diamond

Project Manager: Robert Worl      Docket: 03-AFC-2      Technical Senior: 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) (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;	8.10.3.6      8.10.3.2 page 8.10-14 8.10.3.1 pages 8.10-11, 8,10-13.	Yes	
8.1Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	8.10.3.2 page 8.10-14.	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and an estimate of the total operation payroll;	8.10.3.7 page 8.10-11. 8.10.3.2 page 8.10-13.	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	8.10.3.8 page 8.10-11. 8.10.3.2 page 8-10-13.	No	Phase 1: Please provide an estimate for the operation phase of the project for locally purchased materials.

Adequacy Issue: Adequate  Inadequate  **DATA ADEQUACY WORKSHEET** Revision No. 0 Date 1/12/2004  
 Technical Area: **Socioeconomics** Project: Los Esteros Critical Energy Facility 2 Technical Staff: Dr. Joseph Diamond  
 Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: 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) (ix)	An estimate of the capital cost of the project of the potential impacts on tax revenues from construction and operation of the project.	8.10.3.1 page 8.10-13. 8.10.3.2 Operational Impacts, Fiscal Impacts, pages 8.10-14&15.	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 8.10-11. , page 8.10-17.	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.	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).	8.10.9 , page 8.10-18.	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 8.10-12, page 8.10-18.	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.	8.10.9 , page 8.10-18.	N/A	See Land Use Section

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1.27.04

Technical Area: Soils

Project: Los Esteros Critical Energy Facility 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

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.	Ch. 2, p. 2-1 to 2-29 Sect. 8.2, p. 8.2-1 to 8.2-3 & 8.2-17 to 8.2-22 Sect. 8.4, p. 8.4-1 to 8.4-4 Sect. 8.11	No	Please provide a discussion of the extent of the grading and or excavation/trenching at the site required for development of Phase 2. A topographic map that defines the final grade for Phase 1, delineates the areas to be disturbed for Phase 2, and shows any changes in grade expected for Phase 2 would be preferred. The discussion and map should include adequate offsite features and topography to understand grade and drainage of adjacent lands. Please provide information and details that show erosion and sediment control measures and their location installed for Phase 1 and any changes to these measures for Phase 2. This information should also include any features installed for linear and ancillary facilities. "As-built" diagrams for Phase 1 that show Phase 2 details would be preferred.
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 8.11-1	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; and	p. 8.4-1 Table 8.11-1 p. 8.11-3	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. 8.2-1 to 8.2-3 Figure 8.4-1 p. 8.4-1, 8.4-2 & 8.4-4 p.8.11-1 to 8.11-3 Table 8.11-1	No	See above. Please provide all relevant information on contaminated soils encountered during construction of Phase 1 that may be affected by construction work for Phase 2. Please include in this information proposed remediation measures that may need to be taken for Phase 2.
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. 8.2-17 to 8.2-22 p.8.4-5	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate   x        **DATA ADEQUACY WORKSHEET**      Revision No.   0        Date   1.27.04  

Technical Area:   Soils        Project:   Los Esteros Critical Energy Facility 2        Technical Staff:   M. Lorraine White  

Project Manager:   Robert Worl        Docket:   03-AFC-2        Technical Senior:   Richard Anderson  

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) (C) (i)	The quantification of accelerated soil loss due to wind and water erosion;	p. 8.11-3 Table 8.11-1	Yes	
Appendix B (g) (15) (C) (iii)	The effect of power plant emissions on surrounding soil-vegetation systems.	p. 8.2-17 to 8.2-22	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 8.11-2	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 8.11-3	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sect. 8.11-3	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 8.11-3	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. 8.11-8	Yes	

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 9, 2003

Technical Area: **Traffic / Transportation**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Amanda Stennick

Project Manager: Robert Worl

Docket: 03-AFC-02

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) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 8.12.1, .2; 8.12.2 through 8.12.5	Yes	
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	Figures 8.12-1, -2 Section 8.12.6.3	Yes	
Appendix B (g) (5) (B)	An identification, on topographic maps at a scale of 1:24,000 and a description of existing and planned roads, rail lines, including light rail, bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	Sections 8.12.1.2 through 8.12.1.4 Figure 2.3-1	Yes	
Appendix B (g) (5) (B) (i)	Road classification and design capacity;	Section 8.12.1 Table 8.12-2	Yes	
Appendix B (g) (5) (B) (ii)	Current daily average and peak traffic counts;	Section 8.12.1.4 Table 8.12-3	Yes	
Appendix B (g) (5) (B) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Sections 8.12.2.2 through 8.12.3.3 Tables 8.12-4, -5	Yes	
Appendix B (g) (5) (B) (iv)	Weight and load limitations;	Section 8.12.1.3	Yes	
Appendix B (g) (5) (B) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Section 8.12.1.2	Yes	

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 9, 2003

Technical Area: **Traffic / Transportation**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Amanda Stennick

Project Manager: Robert Worl

Docket: 03-AFC-02

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) (5) (B) (vi)	An identification of any road features affecting public safety.	Section 8.12.1.3	Yes	
Appendix B (g) (5) (C)	A description of any new, planned, or programmed transportation facilities in the project vicinity, including those necessary for construction and operation of the proposed project. Specify the location of such facilities on topographic maps at a scale of 1:24,000.	Figure 2.3-1 Section 8.12.1.3	Yes	
Appendix B (g) (5) (D)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified. Include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(C).	Sections 8.12.2.2 and .3; 8.12.3 Tables 8.12-4 and -5	Yes	
Appendix B (g) (5) (E)	A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.	Section 8.12.3.3 Table 8.12-7	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 8.12-8	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 9, 2003

Technical Area: **Traffic / Transportation**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Amanda Stennick

Project Manager: Robert Worl

Docket: 03-AFC-02

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) (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 8.12-9	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sections 8.12.3.2 and .3	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 8.12-8	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 8.12-9	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date Jan 14, 2004

Technical Area: **T-LINE SAFETY / NUISANCE**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Obed Odoemelam

Project Manager: Robert Worl

Docket: O3-AFC-2

Technical Senior: Mike Ringer

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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 1.0, pages 1-1 through 1-4. Section 2.0, pages 2-1 and 2-13. Section 5.0, pages 5-1 through 5-5. Appendix 5-A.	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.	Section 5.0, pages 5-7. Appendix 5-A	Yes.	
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.	Section 5.0, page 5-5 through 5-8.	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;	Section 5.0, pages 5-8 through 5-11.	Yes.	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date Jan 14, 2004

Technical Area: **T-LINE SAFETY / NUISANCE**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Obed Odoemelam

Project Manager: Robert Worl

Docket: O3-AFC-2

Technical Senior: Mike Ringer

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.	Section 5.0 pages 5-11 and 5-12.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.0, pages 5-6 through 5-8.	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	
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	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: Transmission System Engineering.

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Mark Hesters

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Al McCuen

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.	Page 2-9 Page 5-1	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.	Pages 5-1 and 5-2	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: **Transmission System Engineering.**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Mark Hesters

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Al McCuen

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) (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	Page 5-1 to 5-5 Appendix 5	No	<p>Phase 2: Provide a transmission line route map or sketch that includes line rights of way.</p> <p>Provide a System Impact Study which will demonstrate conformance or non-conformance with NERC/WSCC, California Independent System Operator (Cal-ISO) and utility reliability and planning criteria with the following provisions:</p> <ol style="list-style-type: none"> <li>Identify major assumptions in the base cases including imports and exports to the system, major generation including hydro, load changes in the system and queue generation.</li> <li>Analyze system for Power Flow for N-0, important N-1 and critical N-2 contingency conditions, and provide a list of overload criteria violations.</li> <li>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 of voltage criteria violations.</li> <li>Provide a Short Circuit Study Report showing fault currents at important substation buses with and without the new generation and respective breaker interrupting ratings side by side (optional, data request will follow).</li> <li>Identify the reliability and planning criteria utilized to determine the criteria violation.</li> <li>Provide a list of contingencies evaluated for each study.</li> <li>List mitigation measures considered (required) and those <u>selected</u> for all criteria violations (optional, data request will follow).</li> <li>Provide power flow diagrams (MVA, % loading &amp; P. U. voltage) 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 occur.</li> <li>Provide electronic copies of *.sav and *.drw GE PSLF and EPCL contingency and comparison files (if available).</li> </ol>

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: Transmission System Engineering.

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Mark Hesters

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Al McCuen

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.	Pages 5-1 and 5-2	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.	Page 5-1	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 5-2 Page 5-9	No	Phase 2: Please provide a statement that the project will comply with applicable laws, ordinances, regulations and standards.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 5-2 Page 5-9	No	Phase 2: Please provide a statement that the project will comply with applicable laws, ordinances, regulations and standards.
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.	Page 5-5 Page 5-9	No	Phase 2: Please indicate when CA ISO and Silicon Valley Power approval letters are expected.

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 9, 2004

Technical Area: Visual Resources

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Eric Knight

Project Manager: Bob Worl

Docket: 03-AFC-2

Technical Senior: 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.	Pages 8.13-1 – 8.13-13; Sections 8.13.1 – 8.13.3	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:	Pages 8.13-1 – 8.13-3; Section 8.13.1	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);	Figure 8.13-1	Yes	
Appendix B (g) (6) (A) (ii)	Elevations of any existing structures on the site; and	Figure 2.3-2	Yes	
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.	Pages 8.13-1 – 8.13-6; Section 8.13.1	Yes	
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that will be impacted by the proposed project.	Pages 8.13-4 – 8.13-6; Section 8.13.1	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 9, 2004

Technical Area: Visual Resources

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Eric Knight

Project Manager: Bob Worl

Docket: 03-AFC-2

Technical Senior: 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) (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.	Pages 8.13-3 – 8.13-6; Section 8.13.1	Yes	
Appendix B (g) (6) (D)	A description of the dimensions, color, and material of each major visible component of the project.	Pages 8.13-7 – 8.13-8; Section 8.13.2.3 Table 8.13-2	Yes	
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 8.13-2a – 8.13-3b	Yes	
Appendix B (g) (6) (F)	An assessment of the visual impacts of the project, including light and glare, and visible plumes.	Pages 8.13-10 – 8.13-13; Section 8.13.2	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;	Tables 8.13-3 and 8.13-4 Pages 8.13-13 – 8.13-15	Yes	

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

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date January 9, 2004

Technical Area: **Visual Resources**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Eric Knight

Project Manager: Bob Worl

Docket: 03-AFC-2

Technical Senior: 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 (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 8.13-4; Pages 8.13-14 – 8.13-15	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Tables 8.13-3 – 8.13-6; Pages 8.13-13 – 8.13-18	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 8.13-4 Page 8.13-14	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.		N/A	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: Waste Management

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Ramesh Sundareswaran

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Mike Ringer

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Sec 8.14.1 to 8.14.4	Yes	
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Sec 8.14.5.3	Yes	
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 8.14.1 to 8.14.4	Yes	
Appendix B (g) (12) (A)	A Phase I Environmental Site Assessment for the proposed power plant site using methods prescribed by the American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process" (Designation: E 1527-93, May 1993), which is incorporated by reference in its entirety; or an equivalent method agreed upon by the applicant and the CEC Staff that provides similar documentation of the potential level and extent of site contamination.	Appendix 8.14	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: Waste Management

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Ramesh Sundareswaran

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Mike Ringer

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (12) (B)	A description of each waste stream estimated to be generated during project construction and operation, including origin, hazardous or nonhazardous classification pursuant to Title 22, California Code of Regulations, § 66261.20 et seq., chemical composition, estimated annual weight or volume generated, and estimated frequency of generation.	Section 8.14.2 to 8.14.3	Yes	
Appendix B (g) (12) (C)	A description of all waste disposal sites which may feasibly be used for disposal of project wastes. For each site, include the name, location, classification under Title 23, California Code of Regulations, § 2530 et seq., the daily or annual permitted capacity, daily or annual amounts of waste currently being accepted, the estimated closure date and remaining capacity, and a description of any enforcement action taken by local or state agencies due to waste disposal activities at the site.	Sec 8.14.4	Yes	
Appendix B (g) (12) (D)	A description of management methods for each waste stream, including methods used to minimize waste generation, length of on- and off-site waste storage, re-use and recycling opportunities, waste treatment methods used, and use of contractors for treatment.	Sec 8.14.2 to 8.14.3	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 8.14-4	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area: **Waste Management**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Ramesh Sundareswaran

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Mike Ringer

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.	Table 8.14-5	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sec 8.14.8	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 8.14-5	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.	Sec 8.14.10	Yes	

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate  x

**DATA ADEQUACY WORKSHEET**

Revision No.  0  Date  1.20.04

Technical Area:  **Water Resources**

Project:  Los Esteros Critical Energy Facility, Phase 2

Technical Staff:  M. Lorraine White

Project Manager:  Robert Worl

Docket:  03-AFC-2

Technical Senior:  Richard Anderson

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.	Ch. 2, p. 2-1 to 2-29 Ch. 7, p. 7-1 to 7-4	No	Please provide "as-built" information on all mitigation measures implemented for Phase 1 that ensure compliance with all discharge water quality requirements, groundwater protection and ensure no on- or offsite flooding. Please provide all actual monitoring reports for Phase 1. Please provide specific information on all proposed monitoring plans (waste discharge, storm water, etc...) for Phase 2.
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	p. 8.15-7 & 8.15-8 Table 8.15-2 p. 8.15-13 & 8.15-14	No	Please provide copies of all approved permits or agreements for industrial waste water discharges for Phase 1. Please also provide specific information regarding changes to these permits or approvals necessary to support Phase 2. This information should include all supporting data, analysis, calculations and assumptions.
Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	p. 8.15-8 and 8.15-14 to 8.15-15 Appendix 7b, 7c, 7d	No	Please provide copies of all approved permits related to storm water discharges to Coyote Creek. This information should include diagrams of all as-built and proposed structures and reports demonstrating compliance with specified requirements.
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:	Figure 8.15-1, 8.15-2		

Adequacy Issue: Adequate  Inadequate  **DATA ADEQUACY WORKSHEET** Revision No. 0 Date 1.20.04  
 Technical Area: **Water Resources** Project: Los Esteros Critical Energy Facility, Phase 2 Technical Staff: M. Lorraine White  
 Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: Richard Anderson

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) (i)	Ground water bodies and related geologic structures;	p. 8.15-1 to 8.15-5	No	Please provide a table that specifies the chemical quality (constituent concentrations) of the shallow aquifer underlying the project site.
Appendix B (g) (14) (B) (ii)	Surface water bodies; and	Figure 8.15-3 p. 8.15-5	No	Please provide specific quality, flow and volume information for Coyote Creek at the location affected by the project.
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	Figure 8.15-3 p. 8.15-5 & 8.15-6	Yes	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	p. 2-2 to 2-27 Ch. 7 p. 8.15-6 to 8.15-18		
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;	Appendix 7-A	No	Please provide a copy of all executed water service agreement(s) for Phase 1. This information should include information on potable water suppliers to Phase 1.
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	Table 8.15-2 and 8.15-3	No	Please provide actual, not estimated, physical and chemical data for source and discharge water for Phase 1. This information should include copies of any reports filed as required by applicable permits or approvals. Please include in this information any sampling results for storm water discharges to Coyote Creek.
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	Ch. 7	No	Please provide actual, not estimated, data on average and maximum daily and annual water demand and waste water discharge for operation of Phase 1.

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1.20.04

Technical Area: Water Resources

Project: Los Esteros Critical Energy Facility, Phase 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard Anderson

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) (iv)	A description of all facilities to be used in water conveyance, treatment, and discharge. Include a water mass balance diagram.	Figure 2.3-5a & b Figure 2.4-5a & b	No	Please provide detailed information on all "as-built" features and facilities used in the conveyance, treatment and discharge of water for Phase 1. Include in this as-built information for the discharge structures in Coyote Creek and specific description of required changes for relocating this outfall. Please clarify if there are one or two recycled water supply lines and, if there are two, why.
Appendix B (g) (14) (D)	A description of pre-, and post-construction runoff and drainage patterns, including:	Appendix 7b, 7c, 7d	No	Please provide adequate information on drainage patterns adjacent to the site, including features that may direct flows towards or away from the site. Please provide a diagram of the pre- and post- construction runoff and drainage information for the laydown area.
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	p. 8.15-1 to 8.15-2 Table 8.15-1	No	Please provide flow and volume information for Coyote Creek during storm events.
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	p. 8.15-5 & 8.15-6 p. 8.15-8 p. 8.15-14 & 8.15-15	No	Please provide detailed information on all "as-built" features and facilities for Phase 1. Include in this information discussions and diagrams of changes required to these features and facilities to accommodate Phase 2. Please provide construction details, permit application information and permit or approval requirements/ criteria for the storm water outfall(s) in Coyote Creek.
Appendix B (g) (14) (E)	An assessment of the effects of the proposed project on water resources. This discussion shall include:	Sect. 8.15.2, 8.15.3 & 8.15.5		
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source;	p.8.157 & 8.15-11 to 8.15-13	No	Please provide an assessment of the project's (as a whole) water demand impacts on other users of the recycled water product.

Adequacy Issue: Adequate  Inadequate  **DATA ADEQUACY WORKSHEET** Revision No. 0 Date 1.20.04  
 Technical Area: **Water Resources** Project: Los Esteros Critical Energy Facility, Phase 2 Technical Staff: M. Lorraine White  
 Project Manager: Robert Worl Docket: 03-AFC-2 Technical Senior: Richard Anderson

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) (E) (ii)	The effects of construction activities and plant operation on water quality; and	p. 8.15-7 to 8.15-15	No	Please provide an assessment of the performance of all practices implemented for Phase 1 to protect water quality (construction and operation). This information should include measures taken to remediate contaminated soils or water, best management practices for storm water management and any pretreatment or management practices for meeting waste water discharge requirements. Please provide an assessment of potential effects to groundwater quality that could result from construction and operation of the project (both Phase 1 and 2). This information should include a description of all best management practices implemented to protect soil and water resources from contaminants used in construction and operation. Please provide an assessment of the impacts of the proposed project's waste water discharge on the South Bay Water Recycling programs recycled water product and other users of the recycled water. Please distinguish between changes in quality caused by Phase 1 versus Phase 2 and project as a whole.
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	8.15-14 & 8.15-15	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 8.15-4	No	Please provide all specified information for applicable LORS, permits and approvals required and obtained for Phase 1. Other agencies involved in the permitting of the storm water outfall include the US Army Corps and Department of Fish and Game.

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1.20.04

Technical Area: Water Resources

Project: Los Esteros Critical Energy Facility, Phase 2

Technical Staff: M. Lorraine White

Project Manager: Robert Worl

Docket: 03-AFC-2

Technical Senior: Richard 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) (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 8.15-7	No	Please provide all specified information for applicable LORS, permits and approvals required and obtained for Phase 1. Other agencies involved in the permitting of the storm water outfall include the US Army Corps and Department of Fish and Game.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 8.15-4 p. 8.15-18 to 8.15-23	No	Please provide copies of all executed wastewater or storm water discharge permits and agreements for Phase 1. Please provide reports, operational data, "as built" features, or analysis related to Phase 1 that discuss or demonstrate conformance with requirements specified in these permits and or agreements. Please provide a discussion of the proposed project's conformity with the Commission's policy on the implementation of ZLD systems at power plants (Integrated Energy Policy Report, CEC, 2003, p. 36). Please provide a description of specific changes or modifications that will be required to permits or agreement for Phase 1 to accommodate Phase 2.
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 8.15-7	No	Please confirm that persons listed in this table are appropriate contacts for both Phase 1 and Phase 2. Please add contacts for the US Army Corps and Department of Fish and Game.
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 8.15-7	No	Please provide information regarding dates of application and permit issuance or approvals for Phase 1. Include in this information any revisions or modifications that may be required to these permits or approvals as a result of Phase 2.

AdAdequacy Issue:

Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date 1/13/04

Technical Area:

**Worker Safety**

Project: Los Esteros Critical Energy Facility 2

Technical Staff: Geoff Lesh

Project Manager:

Robert Worl

Docket: 03-AFC-02a

Technical Senior: Rick Tyler

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 8.16, Table 8.16-1, Table 8.16-2	Yes	
Appendix B (g) (11) (A)	A description of the safety training programs which will be required for construction and operation personnel.	Section 8.16.4, Table 8.16-3, Table 8.16-4	Yes	
Appendix B (g) (11) (B)	A complete description of the fuel handling system and the fire suppression system.	Sections 8.16.5, 2.3.3, 2.6.2	No	Need descriptions of fuel handling and fire systems, incl: water sources, volumes and rates for Phase 1 & 2.
Appendix B (g) (11) (C)	Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows:	Section 8.16.31, 8.16.32	Yes	
	Construction Health and Safety Program:		Yes	
	* Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509);			
	* Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920);		Yes	
	* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522)		Yes	
	Operation Health and Safety Program:		Yes	
* Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203);				
* Fire Prevention Plan (8 Cal. Code Regs., § 3221);		Yes		
* Emergency Action Plan (8 Cal. Code Regs., § 3220);		Yes		

AdAdequacy Issue:

Adequate  Inadequate **DATA ADEQUACY WORKSHEET**Revision No. 0 Date 1/13/04

Technical Area:

Worker SafetyProject: Los Esteros Critical Energy Facility 2Technical Staff: Geoff Lesh

Project Manager:

Robert WorlDocket: 03-AFC-02aTechnical Senior: Rick Tyler

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
	* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 3401-3411).		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 8.16-5, Table 8.16-6, Table 8.16-7, Table 8.16-8,	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 8.16-9	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 8.16	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 8.16-8	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 8.16.9	Yes	