

Memorandum

Date : May 27, 2005
Telephone: (916) 653-1245

To : Joseph Desmond, Chairman
Jackalynne Pfannenstiel, Vice Chair
James S. Boyd, Commissioner
John L. Geesman, J.D., Commissioner
Arthur H. Rosenfeld, Ph.D., Commissioner

From : **California Energy Commission** - Scott Matthews
1516 Ninth Street Acting Executive Director
Sacramento, CA 95814-5512

Subject : **DATA ADEQUACY RECOMMENDATION FOR THE PASTORIA ENERGY FACILITY EXPANSION PROJECT (05-AFC-1)**

The staff has completed its data adequacy review of the Pastoria Energy Facility Expansion Project Application for Certification (AFC) submitted on April 29, 2005. During this review, the staff has communicated frequently with the applicant who has provided draft supplemental information. Staff has determined that the AFC does not contain all the information required by Cal. Code of Regs., tit. 20, § 1704, Appendix B for the 12-month AFC process. Of the 23 technical disciplines reviewed, information is still needed in 3 areas (soils, water resources and transmission system engineering) pertaining to the 12-month process.

The applicant requested an expedited 6-month siting process allowed under Public Resources Code §25550. However, after review of the AFC, staff has determined that it also does not meet the data adequacy requirements of the 6-month process for the same 3 technical areas. Therefore, staff recommends that the Energy Commission find the AFC inadequate for both the 6-month process and 12-month process. Attachment A contains an overview of whether each technical discipline evaluated is adequate or inadequate. Attachment B contains staff's detailed data adequacy worksheets that describe staff's findings for each information requirement for both the 6-month and 12-month processes. It should be noted that to qualify for the 6-month process, the project must also meet the 12-month criteria.

We have received comments from other agencies. The San Joaquin Air Pollution Control District has indicated that the application is complete for their purposes. The California Independent System Operator is expected to provide a letter documenting their completeness review of the transmission system impact study and findings in early June, prior to the business meeting.

At the Energy Commission's business meeting on June 8, 2005, I will recommend that the Energy Commission not accept the AFC until all the additional information specified in Attachment B is supplied. Pursuant to Cal. Code of Regs., tit. 20, § 1709 (c), if the Energy Commission accepts my recommendation, the Energy Commission shall indicate, in writing, those parts of the AFC which fail to meet the information requirements and the manner in which it can be made complete.

If you have any questions, please call James W. Reede, Jr., Ed. D., staff's Project Manager, at (916) 653-1245.

Attachments

**ATTACHMENT A
OVERVIEW OF ENERGY COMMISSION STAFF'S
DATA ADEQUACY DETERMINATION
PASTORIA ENERGY FACILITY EXPANSION PROJECT
05-AFC-1**

TECHNICAL AREA	ATTACHMENT B PAGE No.	ADEQUATE? 12-MONTH	ADEQUATE? 6-MONTH
Air Quality	1	Yes	Yes
Alternatives	6	Yes	Yes
Biological Resources	7	Yes	Yes
Cultural Resources	11	Yes	Yes
Efficiency	14	Yes	Yes
Facility Design	16	Yes	Yes
Geological Hazards	19	Yes	Yes
Hazardous Materials Handling	21	Yes	Yes
Land Use	23	Yes	Yes
Noise	26	Yes	Yes
Paleontological Resources	29	Yes	Yes
Project Overview	31	Yes	Yes
Public Health	34	Yes	Yes
Reliability	36	Yes	Yes
Socioeconomics	38	Yes	Yes
Soils	45	No	No
Traffic and Transportation	47	Yes	Yes
T-Line Safety and Nuisance	50	Yes	Yes
Transmission System Engineering	53	No	No
Visual Resources	56	Yes	Yes
Waste Management	59	Yes	Yes
Water Resources	62	No	No
Worker Safety	68	Yes	Yes
6-MONTH MASTER	70		No

ATTACHMENT B

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

**PASTORIA ENERGY FACILITY EXPANSION PROJECT
05-AFC-1**

May 27, 2005

Adequacy Issue: Adequate Inadequate
 Technical Area: Air Quality
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 01 Date 5/20/05
 Project: Pastoria Energy Facility Expansion Project Technical Staff: William Walters (Aspen)
 Docket: 05-AFC-01 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.	Section 3.4.11 pgs 3.4-27 to 3.4-29 Section 5.2.1 pgs 5.2-2. -3 Section 5.2.3 pgs 5.2-5 to 5.2-13 Section 5.2.5 pgs 5.2-23 to 5.2-55 Air Quality Technical Appendices A through F Section 5.2.8 pg 5.2-60	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.	SJVAPCD permit application completeness letter dated 5/20/05.	Yes	
Appendix B (g) (8) (B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	Section 5.2 Table 5.2-16 pg 5.2-27 Air Quality Technical Report Appendices A, B Section 3.4 pg 3-10 Section 3.4 Figure 3.4-1 Electronic Modeling Files	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 5.2.6.3.1 pg 5.2-57 Air Quality Technical Report Appendix D, pg D-2 Air Quality Technical Report Appendix E	Yes	

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 Project Manager: James Reede

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Revision No. 01 Date 5/20/05
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 Docket: 05-AFC-01 Technical Senior: Keith Golden

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Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Not applicable as no new cooling systems are being proposed.	Yes	
Appendix B (g) (8) (E)	The emission rates of criteria pollutants from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all secondary emission sources.	Section 5.2.5.2 pgs 5.2-28 to 5.2-31 Air Quality Technical Report Appendices A, B	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.	Section 5.2.5.2.1 pgs 5.2-29 to 5.2-30 Air Quality Technical Report Appendix A	Yes	
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Section 5.2.3 pgs 5.2-5 to 5.2-12 Section 5.2.5.4.5 pg 5.2-45	Yes	
Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.	Electronic Modeling Files	Yes	
Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995), which is incorporated by reference in its entirety.)	Not Applicable	Yes	

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 Project Manager: James Reede

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Revision No. 01 Date 5/20/05
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 Docket: 05-AFC-01 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) (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.	Section 5.2.1.2 pgs 5.2-2, -3 Section 5.2 Figures 5.2-5A to 5.2-5E Air Quality Technical Report Appendix B pgs B-1 to B-3 Electronic Modeling Files	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 (PM ₁₀) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO _x), sulfur dioxide (SO ₂), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM ₁₀)] from construction-related equipment;	Air Quality Technical Report Appendix D Electronic Modeling Files	Yes	
Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert criteria pollutant (NO _x , SO ₂ , CO and PM ₁₀) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions; and	Air Quality Technical Report Appendix B Electronic Modeling Files	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 01 Date 5/20/05

Technical Area: Air Quality

Project: Pastoria Energy Facility Expansion Project

Technical Staff: William Walters (Aspen)

Project Manager: James Reede

Docket: 05-AFC-01

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) (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.	Section 5.2.7 pg 5.2-60 Section 5.9.1 pg 5.9-1	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;	Section 5.2.6.3.2 Table 5.2-27 pg 5.2-58 Air Quality Technical Report Appendix F, Table F-2, pg F-2	Yes	
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions; and	Air Quality Technical Report Appendix F, Tables F-1 and F-2, pgs F-1 and F-2	Yes	
Appendix B (g) (8) (J) (iii)	Method of emission reduction.	Air Quality Technical Report Appendix F, Table F-2, pg F-2	Yes	
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.	Fig. 5.16-1	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;	Section 5.2 Table 5.2-14 pgs 5.2-24 to 5.2-26 Section 7, Table 7-1, pgs 7-9, -10	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 01 Date 5/20/05

Technical Area: **Air Quality**

Project: Pastoria Energy Facility Expansion Project

Technical Staff: William Walters (Aspen)

Project Manager: James Reede

Docket: 05-AFC-01

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 (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 5.2 Table 5.2-9, pg 5.2-14 Section 7, Table 7-1, pgs 7-9, -10	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.2.6 pgs 5.2-55 to 5.2-60	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.	Section 5.2 Table 5.2-9, pg 5.2-14	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.	Section 5.2 Table 5.2-9, pg 5.2-14 Section 7.5.2.1 pg 7-52 Additional Information Letter Dated 5/18/05 from Sierra Research	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 13, 2005

Technical Area: Alternatives

Project: Pastoria Expansion

Technical Staff: James W. Reede, Jr. Ed.D

Project Manager: James W. Reede, Jr., Ed.D

Docket: 05-AFC-01

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 (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.	5/13/05 Draft Supplement	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.	5/13/05 Draft Supplement	YES	
Appendix B (f) (2)	An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1).	5/13/05 Draft Supplement	YES	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. _____ Date May 15, 2005
 Technical Staff: Susan Sanders
 Technical Senior: Rick York

Project: Pastoria Energy Facility 160 MW Expansion
 Docket: 05-AFC-1

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.	<p>Existing site conditions Vol. I § 5.6.1 Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6-1</p> <p>Impacts Vol. I § 5.6.2 Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6.2.1</p> <p>Mitigation Vol. I § 5.6.2 Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6.3</p> <p>Monitoring Vol II Attachment E, Biological Resources from 99-AFC-7 § 5.6.3, Bio 9 & 10;</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	A description of current conditions at the proposed construction sites within the power plant and laydown areas has been provided in a May 13, 2005 memo from Russell Kokx (CEC-approved Designated Biologist) to Jennifer Scholl, URS Corporation. This memo describes results of a May 4, 2005 site visit, and discusses status of biological resources in the proposed expansion areas. This memo satisfies the need for updated information on current conditions at the project site.
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.	<p>Regional Overview: Vol II Attachment E, Biological Resources from 99-AFC-7 § 5.6.1, pp 5.6-1 to 5.6-4</p> <p>Sensitive biological resources maps - Biological Technical Report (Appendix N)</p>	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. _____ Date May 15, 2005
 Technical Staff: Susan Sanders
 Technical Senior: Rick York

Project: Pastoria Energy Facility 160 MW Expansion
 Docket: 05-AFC-1

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) (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.	Vol II Attachment E, Biological Resources from 99-AFC-7 § 5.6.1 and Biological Technical Report (Appendix N)	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.	Vol II Attachment E, Biological Resources from 99-AFC-7 § 5.6.1 and Biological Technical Report (Appendix N)	Yes	
Appendix B (g) (13) (D)	A discussion of all permanent and temporary impacts to biological resources from site preparation, construction activities, and plant operation. Discussion of impacts must consider impacts from cooling tower drift, and from the use and discharge of water during construction and operation. For facilities which use once-through cooling or take or discharge water directly from or to natural sources, discuss impacts resulting from entrainment, impingement, thermal discharge, effluent chemicals, type of pump (if applicable), temperature, volume and rate of flow at intake and discharge location, and plume configuration in receiving water.	Impacts Vol. I § 5.6.2 Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6.2 (cooling tower not included in PEF Expansion project, no analysis needed); For water intake/discharge discussion, Vol. I § 3.4.8 and 5.5; Vol. II, Attachment D, Water Resources from 99-AFC-7	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: James Reede

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Revision No. _____ Date May 15, 2005
 Technical Staff: Susan Sanders
 Technical Senior: Rick York

Project: Pastoria Energy Facility 160 MW Expansion
 Docket: 05-AFC-1

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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;	Vol. I § 5.6.3 Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6.3	Yes	
Appendix B (g) (13) (E) (ii)	All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and	Vol. I § 5.6.3 Vol. 1, § 9 Conditions of Certification Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6.3	Yes	
Appendix B (g) (13) (E) (iii)	Any educational programs proposed to enhance employee awareness in order to protect biological resources.	Vol. 1, § 9 Conditions of Certification Bio 4 Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6.3	Yes	
Appendix B (g) (13) (F)	A discussion of compliance and monitoring programs proposed to ensure the effectiveness of mitigation measures incorporated into the project.	Vol 1. § 9 Vol II Attachment E, Biological Resources from 99-AFC-7 § 5.6.3, Bio 9 & 10;	Yes	
Appendix B (g) (13) (G)	A discussion of native fish and wildlife species of commercial and/or recreational value that could be impacted by the project.	Vol II Attachment E, Biological Resources from 99-AFC-7 § 5.6.2.9, pg 5.6-12	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;	Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6.1 and Biological Technical Report (Appendix N)	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	Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6.1 and Biological Technical Report (Appendix N)	Yes	

Adequacy Issue: Adequate Inadequate
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Appendix B (g) (13) (H) (iii)	Species or habitats identified by legislative acts as requiring protection.	Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6.1 and Biological Technical Report (Appendix N)	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;	Vol. I, § 7.0, LORS Table 7-1, pages 7-18 to 7-20	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, § 7.0, LORS Table 7-1, pages 7-18 to 7-20	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Vol. I, § 7.0, LORS Table 7-1, pages 7-18 to 7-20	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Vol. I, Exhibit 1 LORS Table 7.0-1, page 80	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.	No biology permits outside of commission authority are anticipated for the PEF expansion	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 5/11/05
 Technical Staff: Dorothy Torres
 Technical Senior: Dale Edwards

Project: Pastoria Energy Facility 160 MW Expansion
 Docket: 05-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	AFC 05, p. 5.7-1 AFC 99, p. 5.7-1 Con Ap J, p. J1-J2 AFC 99, p. 5.7-30,31 Con Ap J, pJ32 & J33 & AFC Sect 5.18 AFC 99, p. 5.7-31 to p. 5.7-33 & Con Ap J, p J32-J33 AFC 05, p. 5.9-1	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.	AFC 99, p. 5.7-3 to p. 5.7-10 & Con Ap J, p. J5 to J12 AFC 99, Fig 5.7-1 & Con Ap J, Map J1.03	Yes	
Appendix B (g) (2) (B)	A description of all literature searches and field surveys used to provide information about known cultural resources in the project vicinity. If survey records of the area potentially physically affected by the project are not available, and the area has the potential for containing significant cultural resources, the applicant shall submit a new or revised survey for any portion of the area lacking comprehensive survey data. A discussion of the dates of the surveys, methods used in completing the surveys, and the identification and qualification of the individuals conducting the surveys shall be included.	AFC 99,p. 5.7-11 to 5.7-14 Con Ap J, p. J13-J16 AFC 99, p. 5.7-14 to 5.7-24 & Con Ap J, p. J16 to J26 AFC 99, 5.7-14 & Con Ap J, p. J16 AFC 99, 5.7-14 & Con Ap J, p. J16 Con Ap J, Appendix A AFC Vol II 05, Sect F Summary of Compliance	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 5/11/05

Technical Area: Cultural Resources

Project: Pastoria Energy Facility 160 MW Expansion

Technical Staff: Dorothy Torres

Project Manager: James Reede

Docket: 05-AFC-1

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) (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.	AFC 05, p. 5.7-1 AFC 99, p. 5.7-19 to 5.7-30 & Con Ap J, p. J29 to J30 Appendix J to the AFC 99, submitted 11/30/99	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.		Yes	
Appendix B (g) (2) (E)	In the discussion on mitigation and monitoring prepared pursuant to subsection (g)(1), a discussion of any educational programs proposed to enhance awareness of potential impacts to archeological resources by employees and contractors, measures proposed for mitigation of impacts to known cultural resources, and a set of contingency measures for mitigation of potential impacts to previously unknown cultural resources.	AFC 99, p. 5.7-31 to 5.7-38 & Con Ap J, p. J32 to J37 AFC 99, p. 5.7-32 & Con Ap J, p. J33 AFC 99, p. 5.7-31 to 5.7-33 & Con Ap J, p. J32-J33 AFC 99, p. 5.7-33 & Con Ap J, p. J33. AFC 05, p. 5.7-1 & 5.7-2	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;	AFC 05, p. 7-20 to 7-24	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 5/11/05

Technical Area: Cultural Resources

Project: Pastoria Energy Facility 160 MW Expansion

Technical Staff: Dorothy Torres

Project Manager: James Reede

Docket: 05-AFC-1

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.	AFC 05, p. 7-24 to 7-37	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	AFC 05 p. 7-64 to 7-67	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	AFC 05, p. 7-32 to 7-37	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		N/A	

Adequacy Issue: Adequate Inadequate
 Technical Area: Efficiency
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 10, 2005
 Technical Staff: Steve Baker
 Technical Senior: Steve Baker

Project: Pastoria 160 MW Expansion Project
 Docket: 05-AFC-1

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, 1.3.2, 1.3.3, 2.0, 3.0, 3.1, 3.4, 3.4.1, 3.4.4, 3.4.7, 3.7.1, 3.9, 3.9.1, 3.9.2, 4.3.2, 4.3.3, 5.18.2; Tables 1-1, 3.4.1-1; Figure 3.4-1	Yes	
Appendix B (i) (4) (A)	Heat and mass balance diagrams for design conditions for each mode of operation.	Figure 3.4-1	Yes	
Appendix B (i) (4) (B)	Annual fuel consumption in BTUs for each mode of operation.	§§ 1.3.3, 4.3.3.1	Yes	
Appendix B (i) (4) (C)	Annual net electrical energy produced in MWh for each mode of operation.	§§ 1.3.2, 3.4.1, 3.9.2.1.1, 3.9.2.1.2, 3.9.2.1.3	Yes	
Appendix B (i) (4) (D)	Number of hours the plant will be operated in each mode of operation in each year.	§§ 1.3.2, 3.4.1, 3.9.1, 3.9.2.1, 3.9.2.1.1, 3.9.2.1.2, 3.9.3.1.3	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.	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;	Table 7-1	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 10, 2005

Technical Area: Efficiency

Project: Pastoria 160 MW Expansion Project

Technical Staff: Steve Baker

Project Manager: James Reede

Docket: 05-AFC-1

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.	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 May 10, 2005
 Technical Area: Facility Design Project: Pastoria Energy Facility Expansion Project Technical Staff: Shahab Khoshmashrab
 Project Manager: James W. Reede, Jr. Docket: 05-AFC-1 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 7-1; §§ 7.2, 7.3; Appendices C through F	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 7-1; § 7.0	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	§§ 3.4.14, 4.1.1, 7.0; Table 7-1	Yes	
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.	§ 7.1 (p.7-36)	Yes	

Adequacy Issue: Adequate Inadequate _____ **DATA ADEQUACY WORKSHEET** Revision No. 0 Date May 10, 2005
 Technical Area: **Facility Design** Project: Pastoria Energy Facility Expansion Project Technical Staff: Shahab Khoshmashrab
 Project Manager: James W. Reede, Jr. Docket: 05-AFC-1 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) (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.	Refer to the existing PEF Permit Book docketed on 4/29/05.	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.	§§ 1.1, 1.3.1, 3.0, 3.1, 3.2, 3.3, 3.4.3, 3.5, 4.1.1; Attachment B	Yes	
Appendix B (i) (1) (B)	A discussion of any measures proposed to improve adverse site conditions.	§§ 3.4.14, 3.5.1, 4.1.1; Attachment B	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.	§§ 3.5.1, 4.1.1; Appendices C through F; Attachment B	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:	Figures 1.2-1, 3.1-1, 3.1-3, 3.1-4A, 3.4-2, 3.4-3, 3.4-4, 3.4-5; Attachment B; Appendices C through F	Yes	
Appendix B (i) (1) (D) (i)	The power generation system;	§§ 1.2, 3.1, 3.4, 3.4.1, 3.4.4, 3.5, 3.9.1	Yes	
Appendix B (i) (1) (D) (ii)	The heat dissipation system;	§§ 1.3.4, 3.4.5, 3.5 Table 3.4.1-1	Yes	
Appendix B (i) (1) (D) (iii)	The cooling water supply system, and, where applicable, pre-plant treatment procedures;	§§ 1.3.4, 3.0, 3.1, 3.4.1, 3.4.5, 3.4.8, 3.9, 3.9.2.6.4, 4.3.4, 5.5.1.1	Yes	
Appendix B (i) (1) (D) (iv)	The atmospheric emission control system;	§§ 1.2, 1.3.2, 3.4.1, 3.4.4, 3.4.4.1, 3.4.4.2, 3.4.11, 3.5, 3.5.2, 5.2 Table 3.4.1-1	Yes	

Adequacy Issue: Adequate Inadequate **DATA ADEQUACY WORKSHEET** Revision No. 0 Date May 10, 2005
 Technical Area: Facility Design Project: Pastoria Energy Facility Expansion Project Technical Staff: Shahab Khoshmashrab
 Project Manager: James W. Reede, Jr. Docket: 05-AFC-1 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) (v)	The waste disposal system and on-site disposal sites;	§§ 3.0, 3.1, 3.4.3, 3.4.8.4, 3.4.9, 5.14	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	§§ 1.3.5, 3.1, 3.4.6, 3.5, 3.6	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
 Technical Area: **Geological Hazards**
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 12, 2005
 Technical Staff: Dal Hunter
 Technical Senior: Lynn Alexander

Project: Pastoria Energy Facility-160MW
 Docket: 05-AFC-1

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.	Volume II – Attachment B Sections 5.5.2; 5.3.3; 5.3.4 Volume I Section 5.3.1 – 5.3.3 Section 9.0 p. 71 - 77	Yes	
Appendix B (g) (17) (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities;	Volume II, Attachment B Section 5.3.1 – 5.3.1.7	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.	Volume II, Attachment B Figure 5.3-2 – 5.3-9 Section 5.3.1.1.6	Yes	
Appendix B (g) (17) (C)	A map and description of geologic resources of recreational, commercial, or scientific value which may be affected by the project. Include a discussion of the techniques used to identify and evaluate these resources.	Volume II Section 5.3.2. Figure 5.3.2 – 5.3.9	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;	Volume I Section 7.0 P. 7-2	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 12, 2005

Technical Area: **Geological Hazards**

Project: Pastoria Energy Facility-160MW

Technical Staff: Dal Hunter

Project Manager: James Reede

Docket: 05-AFC-1

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.	Volume I Section 7.0 p. 7-2 p. 7-21 – 7-24	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Volume I Section 7.1	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.	Volume I Section 7 p. 7-2 p. 7-21 – 7-24	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 9, 2005

Technical Area: **Hazardous Materials Handling**

Project: Pastoria Energy Facility Expansion

Technical Staff: Alvin Greenberg

Project Manager: James Reede

Docket: 05-AFC-1

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.	3.4.10.1 Section 5.15	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 3.4.10-2 Table 3.4.10-2 Section 5.15.2.2	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.	Map 5.16-2	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 3.4.10 Section 5.15.2	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 5.15.2.3	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 5.15.2.2.2	YES	
Appendix B (g) (10) (F)	A discussion of measures proposed to reduce the risk of any release of hazardous materials.	Section 9.0 (Pages 45-56) Section 3.4.10 Section 5.15.2.3.4	YES	
Appendix B (g) (10) (G)	A discussion of the fire and explosion risks associated with the project.	Section 5.15.2.2.1	YES	

Adequacy Issue: Adequate Inadequate
 Technical Area: Hazardous Materials Handling
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 9, 2005
 Technical Staff: Alvin Greenberg
 Technical Senior: Rick Tyler

Project: Pastoria Energy Facility Expansion
 Docket: 05-AFC-1

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;	Section 7.5.15 Table 7-1 (Section 7.5.15)	YES	This table lacks specific references of pages where conformity with the LORS is discussed; however, it is easy to find this information in the text.
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 7.5.15 Table 7-1 (Section 7.5.15)	YES	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.15	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.	Section 7.0 Pages 7-32 to 7-37	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	No permits are required

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 9, 2005

Technical Area: Land Use

Project: Pastoria Energy Facility 160 MW Expansion

Technical Staff: Amanda Stennick

Project Manager: James Reede

Docket: 05-AFC-1

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.	Attachment H: Section 5.9.	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:	Attachment H: Section 5.9.1.	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;	Attachment H: Section 5.9.1.	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any trends in recent zoning changes and potential future land use development;	Attachment H: Section 5.18.2	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	Attachment H: Section 5.18.2	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.	Attachment H: Maps 5.9-1 and 5.9-2, Section 5.9.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 9, 2005

Technical Area: Land Use

Project: Pastoria Energy Facility 160 MW Expansion

Technical Staff: Amanda Stennick

Project Manager: James Reede

Docket: 05-AFC-1

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) (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	Attachment H: Section 5.9.2. PEF 4/29/05 Permit Book	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:	Attachment C: Sections 5.4.1.2 and 5.4.2.2; Attachment H: Section 5.9, Map 5.9-1	Yes	
Appendix B (g) (15) (B) (i)	Crop types, irrigation systems, and any special cultivation practices; and	Attachment H: Sections 5.9.1.4.2 through 5.9.1.4.4	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.	Attachment C: Sections 5.4.1.2 and 5.4.2.2	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:	Attachment C: Section 5.4.2.2	Yes	
Appendix B (g) (15) (C) (ii)	Direct and indirect effects on agricultural land uses; and	Attachment C: Section 5.4.2.2	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;	Section 7.0, Table 7-1	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 9, 2005

Technical Area: Land Use

Project: Pastoria Energy Facility 160 MW Expansion

Technical Staff: Amanda Stennick

Project Manager: James Reede

Docket: 05-AFC-1

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.	Section 7.0, Table 7-1	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 7.0, Table 7-1	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.	Section 7.0, Table 7-1	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.	PEF 4/29/05 Permit Book	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 00 Date 05-10-2005

Technical Area: Noise

Project: Pastoria Energy Facility Expansion

Technical Staff: Kevin Robinson

Project Manager: James Reede

Docket: 05-AFC-1

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 5.12.1.1, 5.12.2.1, 5.12.2.2, 5.12.3, 5.12.4, Attachment K	Yes	
Appendix B (g) (4) (A)	A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area 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.	Attachment H Maps 5.9-1 (1 – 4)	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_{eq} (equivalent sound or noise level), L_{dn} (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L_{10} , L_{50} , and L_{90} values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported.	Attachment K § 5.12.1.3, Table 5.12-1, Table 5.12-2	Yes	
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.	Attachment K § 5.12.1.5, Table 5.12-4	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 00 Date 05-10-2005

Technical Area: Noise

Project: Pastoria Energy Facility Expansion

Technical Staff: Kevin Robinson

Project Manager: James Reede

Docket: 05-AFC-1

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (D)	An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project.	§§ 5.12.2.1, 5.12.2.2, 5.12.3	Yes	
Appendix B (g) (4) (E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.	Attachment K §§ 5.12.4.1, 5.12.4.2, Attachment H § 5.17	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.	Attachment K § 5.12.2.3	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 7.1 (page 7-27), § 7.5.12	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 7.1 (page 7-27), § 7.5.12	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	§§ 5.12.2.1, 5.12.2.2, 5.12.3, 5.12.4, 5.12.5, 7.5.12	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 00 Date 05-10-2005

Technical Area: Noise

Project: Pastoria Energy Facility Expansion

Technical Staff: Kevin Robinson

Project Manager: James Reede

Docket: 05-AFC-1

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, 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 May 12, 2005

Technical Area: Paleontological Resources

Project: Pastoria Energy Facility – 160 MW

Technical Staff: Dal Hunter

Project Manager: James Reede

Docket: 05-AFC-1

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.	Volume I, Section 5.8 – 5.8.3. Volume II, Section 5.8 – 5.8.1.1. Section 5.8.3	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.	Volume III , Section 5.8.1.4.1 – 5.8.2.4	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.	Volume II, Section 5.8.1.3 – 5.8.1.4; Tables 5.8.1, 5.8.3	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.	Section 5.8; Volume II Section 5.8.1.2 – 5.8.1.3	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.	Volume II Section 5.8.1.4.1 Figure 5.8.1 Attachment G – and other compliance reports received by CEC	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 12, 2005

Technical Area: Paleontological Resources

Project: Pastoria Energy Facility – 160 MW

Technical Staff: Dal Hunter

Project Manager: James Reede

Docket: 05-AFC-1

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.	Volume I Conditions of Certification PAL-3, p. 75	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;	Volume I Section 7.0 p. 7-21 – 7-24	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.	Volume I Section 7 p. 7-21 – 7-24	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Volume II Section 5.8.4	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.	Volume I Section 7 p. 7-21 – 7-24	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 2, 2005

Technical Area: Project Overview
James W. Reede, Jr., Ed.D

Project: Pastoria Expansion
Docket: 05-AFC-01

Technical Staff: James W. Reede, Jr. Ed.D
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
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.	VARIOUS	YES	
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	VARIOUS	YES	
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	VARIOUS	YES	
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.	VARIOUS	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.	Section3.0, pp 3-1 through 3-54	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.	Section3.0, p 3-4	YES	
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Section3.0, Figure 3.1-4	YES	
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.	Section3.0, Figure 3.1-2, Section 5.0, Figures 5.13-1, 1B, 2, 2B, 3	YES	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 2, 2005

Technical Area: Project Overview
James W. Reede, Jr., Ed.D

Project: Pastoria Expansion
Docket: 05-AFC-01

Technical Staff: James W. Reede, Jr. Ed.D
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 (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.	Previously supplied during Pre-Filing	YES	The Applicant needs to submit the list in an Appendix for a complete application
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.	Section 3.0, p3-41	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.	Section 3.0, p3-2, Section 1.5, p1-5	YES	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Section 3.0, p3-2	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).	Section 3.0, p3-2	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;	Section 3.0, Figure 3.1-4	YES	
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities;	Section 3.0, Figure 3.1-1	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	Section 3.0, pp 3-1 through 3-54	YES	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 2, 2005

Technical Area: Project Overview
James W. Reede, Jr., Ed.D

Project: Pastoria Expansion
Docket: 05-AFC-01

Technical Staff: James W. Reede, Jr. Ed.D
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 (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).	Section 3.0, Figure 3.1-4 & 4A	YES	
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.	Section 3.0, Figure 3.1-3	YES	
Appendix B (c)	In a section entitled, "Demand Conformance" provide a discussion explaining how the proposed project conforms with the requirements of Public Resources Code § 25524 or Public Resources Code § 25540.6(a)(5). If the provisions of Public Resources Code § 25523.5 are applicable, explain how the project conforms with the requirements of this section. Additional data adequacy requirements may be contained in the Electricity Report applicable pursuant to Title 20, California Code of Regulations, § 1720.5.			Not Applicable
Appendix B (d) (1)	A copy of any study or analysis required by the terms of the Commission's Final Decision on the NOI, and a brief summary of the results of the study or analysis.			Not Applicable
Appendix B (d) (2)	Updates of any significant information which has changed since the Commission's Final Decision on the NOI.			Not Applicable
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Section 3-10, pp 3-53 & 54	YES	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 9, 2005

Technical Area: Public Health
 Project Manager: James Reede

Project: Pastoria Energy Facility Expansion
 Docket: 05-AFC-1

Technical Staff: Alvin Greenberg
 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.	Section 5.2.1 Section 5.2.3 Section 5.2.5.5 Section 5.2.7 Section 5.16 Section 5.18	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 5.16-1 Table 5.16-2 Table 5.16-3 Table 5.16-4	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.	5.16.2.2	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.	Map 5.16-1	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).	Map 5.16-2	YES	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 9, 2005

Technical Area: Public Health
 Project Manager: James Reede

Project: Pastoria Energy Facility Expansion
 Docket: 05-AFC-1

Technical Staff: Alvin Greenberg
 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;	Section 7.4.2 Table 7-1 (Section 7.4.2)	YES	(note: This table lacks specific references of pages where conformity with the LORS is discussed; however, it is easy to find this information in the text.)
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 7.4.2 Table 7-1 (Section 7.4.2)	YES	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.2 Section 5.16	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.	Section 7.0 Pages 7-32 to 7-37	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 5.2-14	YES	

Adequacy Issue: Adequate Inadequate
 Technical Area: Reliability
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 10, 2005
 Technical Staff: Steve Baker
 Technical Senior: Steve Baker

Project: Pastoria 160 MW Expansion Project
 Docket: 05-AFC-1

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, 1.3.1, 1.3.2, 1.3.3, 1.3.4, 3.0, 3.1, 3.4.3, 4.1, 3.4.4, 3.4.5, 3.4.6.4, 3.4.6.5, 3.4.7, 3.4.8.1, 3.4.13.4, 3.4.13.5, 3.7.1, 3.7.2, 3.9, 3.9.1, 3.9.2.1, 3.9.2.1.2, 3.9.2.2, 3.9.2.5, 3.9.2.6, 4.1.1, 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5.1, 4.3.5.2, 7.4.1; Tables 1-1, 3.4.1-1; Attachment A § 4.0	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.	§§ 1.2, 1.3.3, 3.0, 3.1, 3.4, 3.4.7, 3.7.1, 3.9.2.6.3, 4.3.3, 4.3.3.1, 4.3.3.2, 7.4.1; Tables 1-1, 7-1; Attachment A § 4.0	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;	§§ 1.3.2, 3.4.1, 3.9.1, 3.9.2.1, 3.9.2.1.1, 3.9.2.1.2, 3.9.2.1.3, 3.9.2.6, 4.3.1.2.1, 4.3.1.4; Attachment A § 4.0	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;	§§ 1.2, 1.3.2, 3.1, 3.4.4, 3.9.2.6.2, 4.1.1.1, 4.3.1, 4.3.1.1, 4.3.1.4, 4.3.5.1, 4.3.5.2	Yes	
Appendix B (i) (3) (B) (iii)	Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability;	§§ 1.2, 1.3.1, 1.3.4, 3.0, 3.1, 3.4, 3.4.5, 3.4.8.1, 3.5.1, 3.7.2, 3.9.2.6.4, 4.1.1, 4.1.1.1, 4.1.1.2, 4.3.4; Attachment A § 4.0	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Reliability
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 10, 2005
 Technical Staff: Steve Baker
 Technical Senior: Steve Baker

Project: Pastoria 160 MW Expansion Project
 Docket: 05-AFC-1

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) (iv)	Special design features adopted by the applicant or resource supplier to ensure power plant reliability; and	§§ 3.4.6.4, 3.4.6.5, 3.4.13.4, 3.5.1, 3.5.7, 3.5.10, 3.9, 3.9.2.2, 3.9.2.5, 3.9.2.6.1, 3.9.2.6.2, 4.1.1, 4.1.1.1, 4.1.1.2, 4.3.1.1, 4.3.1.4, 4.3.5.1, 4.3.5.2, 7.4.1	Yes	
Appendix B (i) (3) (B) (v)	The expected power plant maturation period.	§ 4.3.1.3	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 7-1	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.	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
 Technical Area: Socioeconomics
 Project Manager: James W. Reede Jr., Ed.D.

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/2005
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Mr. Dale Edwards

Project: Pastoria II Expansion AFC
 Docket: 05-AFC-1

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.	Pastoria II Expansion AFC Vol. II Appendix I, 5.10 Socioeconomics to 5.10.1 Study Area, page 5.10-1&2. 5.10.1.3 Employment & Economy pages 5.10-4 & 5.10-5. Pastoria II Expansion AFC Vol. I, 5.10.2.3 Employment and Economy, page 5.10-4. 5.10.2.6 Cumulative Impacts, page 5.10-5. 5.10.3 Mitigation Measures, page 5.10-5. 5.18 Cumulative Impacts, pages 5.18-1 to 5.18-7.	Yes	
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:			

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: James W. Reede Jr., Ed.D.

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/2005
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Mr. Dale Edwards

Project: Pastoria II Expansion AFC
 Docket: 05-AFC-1

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) (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;	Pastoria II Expansion AFC, Vol. II Appendix I, 5.10.1.3 Employment and Economy, pages 5.10-4&5. 5.10.8 Fiscal Resources, page 5.10-8. 12/29/99 Pastoria Energy Facility Response To CEC Data Adequacy Comments SOC-1 Response, page SOC-1.	Yes	
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	Pastoria II Expansion AFC, Vol. II Appendix I, , 5.10.1.2 Population, pages 5.10-2&3. and Table 5.10-1 Demographic Characteristics Of The Labor Force Study Area, page 5.10-23.	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	Pastoria II Expansion AFC, Appendix I, Vol. I, 5.10.1.3 Employment and Economy, pages 5.10-4&5. Table 5.10.1-3 Employment In The Labor Study Area (September 1999), page 5.10-25.	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: James W. Reede Jr., Ed.D.

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/2005
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Mr. Dale Edwards

Project: Pastoria II Expansion AFC
 Docket: 05-AFC-1

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;	Pastoria II Expansion AFC, Vol. I Table 5.10-1 Project Labor Needs And Available Labor By Craft/Skill, page 5.10-3. Table 3.8-3 Project Manpower By Craft. Page 3-43.	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing; and	Pastoria II Expansion AFC, Vol. II Appendix I, 5.10.1.4 Housing, page 5.10-5. Table 5.10-4 Housing Information, page 5.10-26. Pastoria II Expansion 5.10.2.4 Housing, page 5.10-4.	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: James W. Reede Jr., Ed.D.

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/2005
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Mr. Dale Edwards

Project: Pastoria II Expansion AFC
 Docket: 05-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes, for the duration of the project construction schedule.	Pastoria II Expansion AFC, Vol. II Appendix I, 5.10.1.6 Utilities, page 5.10-7. 5.10.1.5 Schools, page 5.10-5 to 7. 5.10.1.7 Emergency and Other Services, pages 5.10-7&8. 5.10.2.6 Utilities, page 5.10-15. 5.10.2.7 Emergency and Other Services, page 5.10-15. Pastoria II Expansion AFC Vo. I, 5.10.2.2 Population, page 5.10-2.	Yes	
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project, including:			
Appendix B (g) (7) (B) (i)	The number of workers to be employed each month by craft during construction and operation;	Pastoria II Expansion AFC, Vol. I Table 3.8-3 Project Manpower By Craft, page 3-43. 5.10.2.1 Peak Construction Workforce, pages 5.10-1 and 2.	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: James W. Reede Jr., Ed.D.

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/2005
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Mr. Dale Edwards

Project: Pastoria II Expansion AFC
 Docket: 05-AFC-1

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) (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;	Pastoria II Expansion AFC, 5.10.2.1 Peak Construction Workforce, pages 5.10-1&2. 5.10.2.2 Population, page 5.10. Table 5.10-2 Distribution Of Average Number of Non-Local Worker, Households In Study Area Communities, (Construction And Operation), page 5.10-4.	Yes	
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Same as above. Plus 5.10.2.3 Employment and Economy, page 5.10-4.	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	Pastoria Expansion II AFC Vol. I 5.10.2.4 Housing, page 5.10-4.	Yes	
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operation phases;	Pastoria Expansion II AFC Vol. II Appendix I, 5.10.2.6 Utilities, page 5.10-15. 5.10.2.7 Emergency and Other Services, page 5.10-15. 5.10.1.5 Schools. Pages 5.10-5 to 7.	Yes	
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	Appendix B (g) (7) (B) (vi)	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and an estimate of the total operation payroll;	Appendix B (g) (7) (B) (vii)	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	Appendix B (g) (7) (B) (viii)	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: James W. Reede Jr., Ed.D.

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/2005
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Mr. Dale Edwards

Project: Pastoria II Expansion AFC
 Docket: 05-AFC-1

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.	Pastoria Expansion II AFC Vol. I 6.0 Financial Information, page 6-1. Appendix B (g) (7) (B) (ix)	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;	Pastoria Expansion II AFC, Vol. I Commission Decision For AFC Pastoria Energy Facility Docket No.-99-AFC-7, December 2000. Appendix A LORS:Laws, Ordinances and Regulations. Exhibit 1- Table Pastoria Energy Facility Summary of LORS And Compliance, 5.10 Socioeconomics, page 74. Table 7-1 Pastoria Energy Facility Expansion 160 MW Expansion. Summary of LORS And Compliance 7.5.10 Socioeconomics, page 7-25.	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).	Pastoria Expansion II AFC, Vol. I 5.10.3 Mitigation Measures, page 5.10-5.	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: James W. Reede Jr., Ed.D.

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/2005
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Mr. Dale Edwards

Project: Pastoria II Expansion AFC
 Docket: 05-AFC-1

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, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Pastoria Expansion II, AFC Vol. I Commission Decision For AFC Pastoria Energy Facility Docket No. 99-AFC-7 December 2000. Appendix A LORS:Laws, Ordinance and Regulation. Administering Agency Contacts, pages 80-81.	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.		N/A	

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 5/13/05

Technical Area: Soils

Project: Pastoria Expansion

Technical Staff: Linda Bond

Project Manager: James W. Reede, Jr. Ed.D

Docket: 05-AFC-1

Technical Senior: Natasha Nelson

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.	The Applicant provides information on soils in Volume I, Section 5.5, pages 5.4-1 to 5.4-2; Volume I, Section 7, Table 7-1, pages 7-11 to 7-12 and pages 7-32 to 7-37; Volume II, Attachment C, Section 5.4, pages 5.4-1 to 5.4-25; and Volume I, Section 9, Conditions of Certification, Soil & Water 1, 2, 3 and 4, pages 57 to 59	NO	See specific information needs below.
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:		----	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; and	Volume II, Attachment C, Section 5.4, Table 5.4-2 A map is provided in Volume II, Attachment C, Section 5.4, Maps 1, 2, 3 and 4.	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.	Volume II, Attachment C, Section 5.4.2.1.1, pages 5.4-5 to 5.4-6	YES	
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:		----	
Appendix B (g) (15) (C) (i)	The quantification of accelerated soil loss due to wind and water erosion;	Volume II, Attachment C, Section 5.4.2.1, page 5.4-4 (calculations not required)	YES	
Appendix B (g) (15) (C) (iii)	The effect of power plant emissions on surrounding soil-vegetation systems.		NO	The effect of emissions of PEF Expansion on surrounding soil-vegetation systems.

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 5/13/05

Technical Area: Soils

Project: Pastoria Expansion

Technical Staff: Linda Bond

Project Manager: James W. Reede, Jr. Ed.D

Docket: 05-AFC-1

Technical Senior: Natasha Nelson

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;	LORS are identified in Volume I, Section 7, Table 7-1, pages 7-11 to 7-12	NO	A discussion of the applicability of each law or standard listed in Table 7-1 to the proposed project. (The discussion provided in the text of Section 7 is incomplete and some of the LORS listed appear to not be applicable to this project.)
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.	Agencies are identified in Volume I, Section 7, Table 7-1, pages 7-11 to 7-12	YES	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).		No	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(B). (The limited comments provided in the text of Section 7 do not address the conformity of the project with the requirements of each of the LORS listed.)
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.	Contact information is provided in Volume I, Section 7, pages 7-32 to 7-37	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		NO	List any required permits outside the authority of the commission and provide schedule. Alternatively, if no outside permits are required, provide explicit statement to explain.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 10, 2005

Technical Area: Traffic and Transportation

Project: Pastoria Expansion Project

Technical Staff: David Flores

Project Manager: James Reede

Docket: 05-AFC-1

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.	AFC Section 5.11.1.2 Pgs. 5.11-5 through 9 Section 5.11.2.2.1 Pgs. 5.11-10 through 22 Figure 5.11-1 Pgs. 5.11-24 through 26 AFC pg. 78 through 80 Sec. 9- Conditions of Certification	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.	Figure 5.11-2 Section 5.11-1 Pgs. 5.11-1 through 5	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:	Response to CEC Data Adequacy Comments 12/9/99 (Comments) Pg. TR-1	Yes	
Appendix B (g) (5) (B) (i)	Road classification and design capacity;	Pg. 5.11-5 through 7 Table 5.11-2	Yes	
Appendix B (g) (5) (B) (ii)	Current daily average and peak traffic counts;	Table 5.11-1 Pgs. 5.11-24 & 25	Yes	
Appendix B (g) (5) (B) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Section 5.11.1.2 Pgs. 5.11-5 through 16 Tables 5.11-4, 11-5, & 11-6	Yes	
Appendix B (g) (5) (B) (iv)	Weight and load limitations;	Comments, Pgs. TR1-4	Yes	
Appendix B (g) (5) (B) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Table 5.11-1 Pgs. 5.11-24 § 25	Yes	
Appendix B (g) (5) (B) (vi)	An identification of any road features affecting public safety.	Comments, Pg. TR-4	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 10, 2005
 Technical Staff: David Flores
 Technical Senior: Dale Edwards

Project: Pastoria Expansion Project
 Docket: 05-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (C)	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.	Section 5.11.1.2 Pg. 5.11-7 & 8 Section 5.11.2.8 Pg. 5.11-21	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).	Pg. 5.11.2 through 5.11.9 Section 5.11.2.1 through 5.11.2.7 Table 5.11.1a & 1b, Table 5.11-2	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 5.11.2.2.1 Pg. 5.11-13 Section 5.11.2.2.2 Pg. 5.11-15	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;	AFC pg. 7-70 & 71 Sec. 7.5.11 through 7.5.11-4 Comments, Attachment 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.	Section 5.11.1.1 Pgs. 5.11-1 through 4 Section 5.11.3, Pg. 5.11-22 Table 7.0-1, Pg. 7.0-21 Comments, Attachment 7	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 10, 2005
 Technical Staff: David Flores
 Technical Senior: Dale Edwards

Project: Pastoria Expansion Project
 Docket: 05-AFC-1

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.11.4, Pg. 5.11-22	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 5.11.5 Pgs. 5/11-22 & 23 Comments, Attachment 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.	Comments, Attachment 7	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 10, 2005

Technical Area: **T-Line Safety and Nuisance**

Project: Pastoria Energy Facility Expansion

Technical Staff: Obed Odoemelam

Project Manager: James Reede

Docket: 05-AFC-1

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 (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.	NA		
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.	NA		
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	NA		
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.	NA		

Adequacy Issue: Adequate Inadequate
 Technical Area: T-Line Safety and Nuisance
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 10, 2005
 Technical Staff: Obed Odoemelam
 Technical Senior: Mike Ringer

Project: Pastoria Energy Facility Expansion
 Docket: 05-AFC-1

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 3.0, pages 3-13 through 3-15.	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 3.0, pages 3-36 through 3-39. Section 4.0, page 4-5 and Attachment 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 3.0, page 3-36 and pages 3-52 and 3-53 Attachment A.	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 7.0, pages 7-7 and 7-8.	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.	Section 7.0, pages 7-7 and 7-8.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 10, 2005

Technical Area: **T-Line Safety and Nuisance**

Project: Pastoria Energy Facility Expansion

Technical Staff: Obed Odoemelam

Project Manager: James Reede

Docket: 05-AFC-1

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) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 3.0, pages 3-38 and 3-39, and 3-52 and 3-53. Section 5.16, pages 5.16-14 through 5.16-16	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.	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.		N/As	

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 5/20/02

Technical Area: **Transmission System Engineering**

Project: Pastoria Energy Facility Expansion

Technical Staff: Mark Hesters

Project Manager: James Reede

Docket: 05-AFC-1

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 3-36	No	Describe the step-up transformer and linear facilities that will connect the new CTG to the new circuit breaker at the power plant switchyard.
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.		No	Provide a list of any additional generating facilities planned in the region and the extent to which the transmission facilities for the PEF expansion have been designed, planned and routed to meet any additional transmission requirements created by the other projects.
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	System Impact Study	No	The System Impact Study did not identify mitigation for overloads and did not include load flow diagrams.
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.	3-36	Yes	

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 5/20/02

Technical Area: Transmission System Engineering

Project: Pastoria Energy Facility Expansion

Technical Staff: Mark Hesters

Project Manager: James Reede

Docket: 05-AFC-1

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 (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.		No	Provide the locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project. This information was provided in figure 3-4.1 of the AFC application for the Pastoria Energy Facility.
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.			Covered in TLS&N
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.			Covered in TLS&N
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;		No	Need to state project (step-up transformer, transmission line to the power plant switchyard and new circuit breaker) will comply with applicable laws, ordinances, regulations and standards.

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 5/20/02

Technical Area: **Transmission System Engineering**

Project: Pastoria Energy Facility Expansion

Technical Staff: Mark Hesters

Project Manager: James Reede

Docket: 05-AFC-1

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 (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.		No	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).		No	Need to state project will comply with applicable laws, ordinances, regulations and standards.
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.		No	Indicate when preliminary and final interconnection approval are expected from the CA-ISO.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 5/12/05

Technical Area: Visual Resources

Project: Pastoria Expansion

Technical Staff: James Adams

Project Manager: James Reede

Docket: 05-AFC-1

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.	Pp. 5.13-6 through 13-20, Sections 5.13.1.2 through 5.13.3.	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:			
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);	Not provided.	Yes	
Appendix B (g) (6) (A) (ii)	Elevations of any existing structures on the site; and	Pp. 5.13-1 & 13-7, Sections 5.13 & 5.13.2.	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.	Pp. 5. 13-6 through 13-11, Sections 5.13.1.2 through 1.4.	Yes	
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that will be impacted by the proposed project.	Pp. 5.13-7 through 13-10 Sections 5.13.1.3 through 3.3.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 5/12/05

Technical Area: Visual Resources
 Project Manager: James Reede

Project: Pastoria Expansion
 Docket: 05-AFC-1

Technical Staff: James Adams
 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.	Pp. 5.13-5 through 13-10, Sections 5.13.1.1 through 1.3.	Yes	
Appendix B (g) (6) (D)	A description of the dimensions, color, and material of each major visible component of the project.	Table 3.4.1-2, p. 3-10,p. 3-10, Section 3.4.1.	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 5.13-3 through 13-8.	Yes	
Appendix B (g) (6) (F)	An assessment of the visual impacts of the project, including light and glare, and visible plumes.	Pp. 5.13-1 through 13-3.	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 7-1, p. 7-28.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date 5/12/05

Technical Area: Visual Resources

Project: Pastoria Expansion

Technical Staff: James Adams

Project Manager: James Reede

Docket: 05-AFC-1

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 7-1 p. 7-28.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pp. 5.13-3 & 4 Section 5.13.4.	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 7-1 p. 7-36.	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.	Not applicable.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 9, 2005

Technical Area: **Waste Management**

Project: Pastoria Energy Facility Expansion

Technical Staff: Alvin Greenberg

Project Manager: James Reede

Docket: 05-AFC-1

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	Section 3 Section 4.1 Section 5.14 Attachment M	YES	
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Section 3.10	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.	Section 5.14 Attachment M	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.	1999 Phase I ESA referenced but not included 2005 Phase I ESA to be submitted under separate cover (Section 5.14.1.2)	YES	
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 3.4.9 Table 3.4.9-1 Table 3.4.9-2 Section 5.14.2 Attachment M	YES	

Adequacy Issue: Adequate Inadequate
 Technical Area: Waste Management
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 9, 2005
 Technical Staff: Alvin Greenberg
 Technical Senior: Mike Ringer

Project: Pastoria Energy Facility Expansion
 Docket: 05-AFC-1

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) (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.	Table 5.14-1 Section 5.14.1 Attachment M	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.	Section 5.14 Attachment M	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 7.5.15 Table 7-1 (Section 7.5.15)	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.	Section 7.5.15 Table 7-1 (Section 7.5.15)	YES	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 3.0 Section 5.14 Attachment M	YES	

Adequacy Issue: Adequate Inadequate
 Technical Area: Waste Management
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Revision No. 0 Date May 9, 2005
 Project: Pastoria Energy Facility Expansion Technical Staff: Alvin Greenberg
 Docket: 05-AFC-1 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) (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.	Section 7.0 Pages 7-32 to 7-37	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/5

Technical Area: **Water Resources**

Project: Pastoria Expansion

Technical Staff: Linda Bond

Project Manager: James W. Reede, Jr. Ed.D

Docket: 05-AFC-1

Technical Senior: Natasha Nelson

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.	Applicant has not prepared their own discussion of impacts but instead simply states that there will be no impacts (Volume I, Section 5.5.2, page 5.5-2). However, the AFC does include some relevant discussion to the proposed project in the CEC description of the existing project, which is provided in Volume I, Section 9, CEC Presiding Members Decision, Section VII Environmental Assessment, Soil and Water Resources, page 191.	NO	See specific information needs below.
Appendix B (g) (14) (A)	All information required by the Regional Water Quality Control Board in the region where the project will be located to apply for:		----	
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; and	Not Applicable	N/A	
Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	Not Applicable	N/A	
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:	Partial description of hydrologic setting is found in Volume II, Attachment D, Section 5.5.1.1.2, page 5.5-2 to 5.5-3	----	

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/5

Technical Area: Water Resources

Project: Pastoria Expansion

Technical Staff: Linda Bond

Project Manager: James W. Reede, Jr. Ed.D

Docket: 05-AFC-1

Technical Senior: Natasha Nelson

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;	Volume II, Attachment D, Section 5.5.1.1.2, page 5.5-3 Volume II, Attachment B, Section 5.3.1.1.3, pages 5.3-3 to 5.3-17 No description of chemical characteristics provided.	NO	Description of chemical characteristics of groundwater.
Appendix B (g) (14) (B) (ii)	Surface water bodies; and	Volume II, Attachment D, Section 5.5.1.1.2, page 5.5-3 Map: Volume I, Section 1.3, Figure 1.3-4A	NO	Description of chemical characteristics of Pastoria Creek.
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	Volume II, Attachment D, Section 5.5.1.1.2, page 5.5-2 Volume II, Attachment A, Section 3.5.8, pages 3.5-5 Volume II, Attachment B, Section 5.3.1.1.6, page 5.3-18.	NO	Information provided is incomplete and outdated. Required information: An Appendix M is referenced in Section 5.5.1.1.2 but omitted from submittal. Also required is the Flood Inundation Study and Hydrology and Hydraulics Analysis (Calpine, July 2001), which provides updated information.
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:		----	

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/5

Technical Area: **Water Resources**

Project: Pastoria Expansion

Technical Staff: Linda Bond

Project Manager: James W. Reede, Jr. Ed.D

Docket: 05-AFC-1

Technical Senior: Natasha Nelson

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) (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;	Description of water use and discharge is discussed in Volume I, Section 3.4.8.1, page 3-16 and Volume II, Attachment D, Section 5.5.1.1.1, page 5.5-1 Source of water is discussed in Volume I, Section 3.4.8.1.2, page 3-17 and Volume II, Attachment D, Section 5.5.1.1.1, page 5.5-1 Applicant has not prepared their own discussion of alternatives. However, the CEC discussion of other sources and feasibility for the original project is provided in Volume I, Section 9, CEC Presiding Members Decision, Section VII Environmental Assessment, Soil and Water Resources, pages 190-193.	YES	
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	Volume I, Section 3, Table 3.4.8-2 and Table 3.4.8-3, pages 3-18 to 3-20	YES	
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project; and	Demand for operation listed in Volume I, Section 4.4.8.1, Table 3.4.8-1, page 3-16.	NO	Average and maximum daily and annual water demand and waste water discharge for construction.

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/5

Technical Area: **Water Resources**

Project: Pastoria Expansion

Technical Staff: Linda Bond

Project Manager: James W. Reede, Jr. Ed.D

Docket: 05-AFC-1

Technical Senior: Natasha Nelson

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.	Volume I Conveyance – Section 5.5, page 5.5-1 Treatment – Section 3.4.8.4, page 3-17. Discharge - Volume I, Section 5.5.3, page 5.5-2 states that the project proposes to comply with the existing PEF Conditions of Certification. Volume I, Section 9, Conditions of Certification, Soil & Water 6, page 59, indicates that project will use zero liquid discharge. Mass Balance Diagram – Section 3, Figure 3.4-5 following page 3-16	YES	
Appendix B (g) (14) (D)	A description of pre-, and post-construction runoff and drainage patterns, including:		----	
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	Some discussion of runoff and drainage is provided in Volume II, Attachment D, Section 5.5.1.1.2, page 5.5-2 Precipitation is discussed in Volume II, Attachment D, Section 5.5.1.1.2, page 5.5-3	No	A description of storm runoff patterns. Runoff information provided is incomplete and outdated. An Appendix M is referenced in Section 5.5.1.1.2 but omitted from submittal. Also required is the Flood Inundation Study and Hydrology and Hydraulics Analysis (Calpine, July 2001), which provides updated information.
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	Volume II, Attachment D, Section 5.5.2.1.2, page 5.5-7 (Information incomplete and outdated)	No	The Appendix M, referenced in Section 5.5.1.1.2, and Flood Inundation Study and Hydrology and Hydraulics Analysis (Calpine, July 2001).
Appendix B (g) (14) (E)	An assessment of the effects of the proposed project on water resources. This discussion shall include:		----	

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/5

Technical Area: Water Resources

Project: Pastoria Expansion

Technical Staff: Linda Bond

Project Manager: James W. Reede, Jr. Ed.D

Docket: 05-AFC-1

Technical Senior: Natasha Nelson

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) (i)	The effects of project demand on the water supply and other users of this source;	Applicant has not prepared their own discussion of effects of project demand on other users, however the AFC includes the CEC discussion of effects in Volume I, Section 9, CEC Presiding Members Decision, Section VII Environmental Assessment, Soil and Water Resources, pages 186-187.	YES	
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	Volume I, Section 5.5.2, page 5.5-2 Volume II, Appendix D, Section 5.5.2.1.2	YES	
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	No discussion provided.	No	The effects of the project on the 100-year flood plain or other water inundation zones.
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;	LORS are identified in Volume I, Section 7, Table 7-1, pages 7-13 to 7-18	NO	A discussion of the applicability of each law or standard listed in Table 7-1 to the proposed project. (The discussion provided in the text of Section 7 is incomplete and some of the LORS listed appear to not be applicable to this project.)
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.	Agencies are identified in Volume I, Section 7, Table 7-1, pages 7-13 to 7-18	YES	

Adequacy Issue: Adequate _____ Inadequate X

DATA ADEQUACY WORKSHEET

Revision No. _____ Date 5/13/5

Technical Area: **Water Resources**

Project: Pastoria Expansion

Technical Staff: Linda Bond

Project Manager: James W. Reede, Jr. Ed.D

Docket: 05-AFC-1

Technical Senior: Natasha Nelson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).		NO	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). (The limited comments provided in the text of Section 7 do not address the conformity of the project with the requirements of each of the LORS listed.)
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.		NO	Contact information for the following agencies listed in Table 7-1 is either omitted or incomplete: EPA, State Water Resources Control Board, Kern County Water Agency, Governor's office of Emergency Services.
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.		NO	List any required permits outside the authority of the commission and provide schedule. Alternatively, if no outside permits are required, provide explicit statement to explain.

Adequacy Issue: Adequate Inadequate
 Technical Area: **Worker Safety**
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Project: Pastoria Energy Facility Expansion
 Docket: 05-AFC-1

Revision No. 0 Date May 9, 2005
 Technical Staff: Alvin Greenberg
 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 3.0 Section 4.1.2 Attachment N	Yes	
Appendix B (g) (11) (A)	A description of the safety training programs which will be required for construction and operation personnel.	Attachment N	Yes	
Appendix B (g) (11) (B)	A complete description of the fuel handling system and the fire suppression system.	Section 3.4.7 Sections 3.4.12 Attachment A (P. 3.4-13) Attachment N (P. 5.17-12)	Yes	
Appendix B (g) (11) (C)	Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows:	Attachment N	Yes	
	Construction Health and Safety Program: * Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509);		Yes	
	* Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920);		Yes	
	* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522)			
	Operation Health and Safety Program: * Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203);		Yes	
	* Fire Prevention Plan (8 Cal. Code Regs., § 3221);		Yes	
	* Emergency Action Plan (8 Cal. Code Regs., § 3220); * Personal Protective Equipment Program (8 Cal. Code Regs., §§ 3401-3411).		Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: **Worker Safety**
 Project Manager: James Reede

DATA ADEQUACY WORKSHEET

Project: Pastoria Energy Facility Expansion
 Docket: 05-AFC-1

Revision No. 0 Date May 9, 2005
 Technical Staff: Alvin Greenberg
 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 (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 7.4.2 Table 7-1 (Section 7.4.2)	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.	Section 7.4.2 Table 7-1 (Section 7.4.2)	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Attachment N	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.	Section 7.0 Pages 7-32 to 7-37	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate _____ Inadequate X **DATA ADEQUACY WORKSHEET** Revision No. 00 Date May 19, 2005
 (Six Month Expedited Process)
 Technical Area: **6-MONTH MASTER** Project: Pastoria Energy Facility Expansion Project Technical Staff: James W. Reede, Jr. Ed.D
 Project Manager: James W. Reede, Jr., Ed.D Docket: O5-AFC-1 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
§2022(b)(1) (All)	Substantial evidence that the project as proposed in the application will comply with all standards, ordinances, and laws applicable at the time of certification including;			
§2022(b)(1)(A) (All)	A list of such standards, ordinances, and laws;		No	LORS are missing from the following areas: 1. Transmission Systems Engineering 2. Soil Resources 3. Water Resources
§2022(b)(1)(B) (All)	Information demonstrating that the project as proposed in the application will comply with all such standards, ordinances, and laws;		No	<p>Soil & Water The AFC does not identify which of the LORS listed in Table 7-1 are applicable or discuss how the project conforms to applicable LORS requirements.</p> <ul style="list-style-type: none"> Identify the LORS listed in Table 7-1 that are applicable to the proposed project. Identify the processes and/or permits that ensure compliance with LORS that are applicable. <p>Transmission Systems Engineering The Step-up transformer, transmission line from the new CTG to the power plant switchyard and the new circuit breaker at the power plant switchyard will need to comply with applicable LORS. Provide a list of the applicable LORS and discuss compliance.</p>
§2022(b)(1)(C) (All)	Where a standard, ordinance, or law is expected to change between the time of filing an application and certification, information from the responsible jurisdiction documenting the impending change, the schedule for enactment of the change, and whether the proposed project will comply with the changed standard, ordinance, or law.; and			N/A

Adequacy Issue: Adequate Inadequate **DATA ADEQUACY WORKSHEET** Revision No. 00 Date May 19, 2005
(Six Month Expedited Process)
 Technical Area: **6-MONTH MASTER** Project: Pastoria Energy Facility Expansion Project Technical Staff: James W. Reede, Jr. Ed.D
 Project Manager: James W. Reede, Jr., Ed.D Docket: O5-AFC-1 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
§2022(b)(1)(D) (All)	A list of the requirements for permitting by each federal, state, regional, and local agency that has jurisdiction over the proposed project or that would have jurisdiction, but for the exclusive jurisdiction of the commission, and the information necessary to meet those requirements;	Section 7.0	No	List is incomplete for, Soils, Water Resources, and Transmission Systems Engineering.
§2022(b)(2)	Substantial evidence that the project as proposed in the application will not cause a significant adverse impact on the environment, including the following:			
§2022(b)(2)(A) (Air Quality)	a detailed modeling analysis assessing whether the cumulative impacts of all inert criteria pollutants (NO _x , SO ₂ , CO, and PM ₁₀) from the project's typical operating mode in combination with all stationary emissions sources within a six-mile radius of the proposed site that have received construction permits, but are not yet operational, and all stationary emissions sources that are currently undergoing air district permit application review will cause or contribute to a violation of any ambient air quality standard;	Section 5.2.5.4.4 pgs 5.2-42, -43.	Yes	
§2022(b)(2)(B) (Air Quality)	A description of the project's planned initial commissioning phase, which is the phase between the first firing of emissions sources and the consistent production of electricity for sale to the market, including the types and durations of equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests, and air dispersion modeling analyses of the impacts of those emissions on state and federal ambient air quality standards for NO ₂ , SO ₂ , CO, and PM ₁₀ ;	Section 5.2.5.3.3 pgs 5.2-40 to 5.2-42 Air Quality Technical Report Appendix B Electronic Modeling Files Additional Information Letter Dated 5/18/05 from Sierra Research	Yes	

Adequacy Issue: Adequate _____ Inadequate X

**DATA ADEQUACY WORKSHEET
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§2022(b)(2)(C) (Air Quality)	A detailed description of the mitigation, which an applicant shall propose, for all impacts from criteria pollutants that currently exceed state or federal ambient air quality standards, but are not subject to offset requirements under the district's new source review rule;	Air Quality Technical Report Appendix D, pg D-2	Yes	
§2022(b)(2)(D) (Air Quality, Public Health)	A modeling analysis that identifies the extent of potential public exposure to toxic substances, as identified in subsection (g)(9)(A) of Appendix B, resulting from normal facility operation;	Air Quality Technical Report Appendix C	Yes	
§2022(b)(2)(E) (Water)	If the project will result in a discharge of waste that could affect the water quality of the state, a complete report of proposed waste discharge as required by section 13260 of the Water Code. This will allow for issuance of waste discharge requirements by the appropriate regional water quality control board within 100 days after filing the application in accordance with Public Resources Code section 25550(d);	Volume I, Section 5.5.3, page 5.5-2 states that the project proposes to comply with the existing PEF Conditions of Certification. Volume I, Section 9, Conditions of Certification, Soil & Water 6, page 59, indicates that project will use zero liquid discharge.	Yes	
§2022(b)(2)(F) (Biology)	A demonstration, based on appropriate data including, but not limited to, scientific surveys taken at the appropriate time of year, that the project will have no significant impact on wetlands, plant or animal species that are endangered, threatened, or of concern under state or federal law, or the areas listed in Public Resources Code section 25527;	Vol. I § 5.6 Vol. II Attachment E, Biological Resources from 99-AFC-7 § 5.6	Yes	

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§2022(b)(2)(G) (Hazardous Material)	With respect to the handling of hazardous materials, a demonstration that: i) the project will not use or store any regulated substance defined in Section 25532(g) of the California Health and Safety Code or ii) the project is eligible for Program 1 status pursuant to Section 68.10 of Part 68 of Title 40 of the Code of Federal Regulations or can demonstrate that no worst case accidental release would result in a plausibility (risk greater than 1 in 1,000,000) of an impact above the Emergency Response Planning Guideline, Level 2 (ERPG 2) at the nearest public receptor.	Section 5.15.2.3	Yes	
§2022(b)(2)(H) (Hazardous Material)	If the project will store or use a regulated substance defined in Section 25532(g) of the Health and Safety Code, a demonstration either that the boundary of the powerplant site will not be within 1000 feet of any residential area, school, general acute care hospital, long-term health care facility, or child day care facility as such terms are defined in section 25534.1 of the Health and Safety Code or that the project will pose no plausible potential for exposure at such facilities from an accidental release of the regulated substance; and	Section 5.15.1	Yes	
§2022(b)(2)(I) (Hazardous Material)	A demonstration that the proposed facility will not require storage of gaseous flammable or explosive materials in quantities greater than 25000 standard cubic feet;	Table 3.4.10-2	Yes	
§2022(b)(3) (TSE)	Substantial evidence that the project will not cause a significant adverse impact on the electrical system, including all of the following:			

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§2022(b)(3)(A) (TSE)	An interconnection study identifying the electrical system impacts and a discussion of the mitigation measures considered and those proposed to maintain conformance with NERC, WSCC, Cal-ISO or other applicable reliability or planning criteria based on load flow, post transient, transient, and fault current studies performed by or for the transmission owner in accordance with all applicable Cal-ISO or other interconnection authority's tariffs, operating agreements, and scheduling protocols and		No	The Transmission System Impact Study (SIS) must have been reviewed at least once by the CA ISO. The SIS was submitted to the CEC and CAISO on May 16, 2005 however, until comments are received from the CAISO on the completeness of the SIS the AFC cannot be determined adequate for the 6-Month process.
§2022(b)(2)(B) (TSE/FD)	A full description of the facilities, if any, that are required for interconnection, including all such facilities beyond the point where the outlet line joins with the interconnected system and a full description of the environmental setting, environmental impacts, and any recommended mitigation measures proposed by the applicant for any required facilities beyond the point where the outlet joint with the interconnected system;		No	The SIS indicates the need for downstream facilities and a CAISO waiver for potential overloads. Note: Without the interconnection study and identification of mitigation measures it is not known whether or not facilities beyond the point where the outlet line joins with the interconnected system will be required. This is a complex case due to the potential for severe overloads, additional studies needed and potential downstream upgrades or new transmission facilities. Reconductoring of an existing line or construction of a new line is a reasonably foreseeable facility and requires environmental info per our 6-month Regs.
§2022(b)(4) (Any area that addresses disproportionate impacts; environmental justice)	A discussion of the potential for disproportionate impacts from the project on minority or low-income people; such discussion shall include, but not be limited to, all of the following:			

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§2022(b)(4)(A) (Land Use, Socioeconomics)	Demographic information by census tract, based on the most recent census data available, showing the number and percentage of minority populations and people living below the poverty level within six miles of the proposed site;		Yes	The Energy Commission Cartography Unit will produce these maps
§2022(b)(4)(B) (Land Use, Socioeconomics)	One or more maps at a scale of 1:24,000 showing the distribution of minority populations and low-income populations and significant pollution sources within six miles of the proposed site, such as those permitted by the U.S. Environmental Protection Agency (Toxic Release Inventory sites), the local air quality management district, or the California Department of Toxic Substances Control; and		Yes	The Energy Commission Cartography Unit will produce these maps
§2022(b)(4)(C) (Public Health)	Identification of available health studies concerning the potentially affected population(s) within a six-mile radius of the proposed power plant site;	N/A		
§2022(b)(5)	The following information to demonstrate that the project, if certified, is likely to be constructed and operated;			
§2022(b)(5)(A) (Project Description)	Information demonstrating the applicant's control, by ownership, lease, option, or other legally binding agreement, that the Commission finds acceptable, of the proposed site and	Section 3.0, p. 3-2	Yes	
§2022(b)(5)(B) (Water)	A will-serve letter or similar document from each provider of water to the project, indicating each provider's willingness to provide water to the project and describing all conditions under which the water will be provided, and a discussion of all other contractual agreements with the applicant pertaining to the provision of water to the project.	Volume I, Section 1.8, page 1-7 references water plan discussed in the Presiding Members Decision and unnamed contractual documents submitted with PEF AFC	No	Will-serve letters for primary and backup water supplies.