

State Of California

The Resources Agency Of California

Memorandum

15,1999

Date :January

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To : William J. Keese, Chairman  
David A. Rohy, Ph.D, Vice Chair  
Jananne Sharpless, Commissioner  
Michal C. Moore, Commissioner  
Robert A. Laurie, Commissioner

From : California Energy Commission Kent Smith  
1516 Ninth Street Acting Executive Director  
Sacramento, CA 95814-5512

Subject : **SUNRISE COGENERATION AND POWER PROJECT--  
DATA ADEQUACY RECOMMENDATION**

Staff has reviewed materials submitted to the Energy Commission by the Sunrise Cogeneration and Power Company on December 21, 1998. The data contained was found by staff to be inadequate in comparison to the requirements of Cal. Code of Regs., tit. 20, § 1704, Appendix B. 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 that is inadequate. Attachment C contains copies of the letters received from agencies and interested public. A supplemental filing is anticipated from the applicant that they believe will satisfy the requirements.

With the exception of the section on Demand Conformance, the AFC was found inadequate for two predominant reasons: 1) A lack of discussion of indirect and cumulative impacts and 2) An absence of reference to the location of references in the text of conformance to laws, ordinances, regulations and standards.

Letters concerning data adequacy were received from the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD), which listed numerous deficiencies in their application to them, notably the absence of identification of the applicant's source of offsets. A letter was received from the Kern County Planning Department, stating, among other matters, that the size of the parcel (16 acres) does not conform to the minimum acreage prescribed by the zoning ordinance for that area. The California Department of Transportation requested in its letter that a study be conducted for possible impacts and mitigation to SR 119 during construction, and the need to obtain encroachment permits for work within state route rights-of-way. Lastly, the law firm of

Adams, Broadwell & Joseph, writing on behalf of California Unions for Reliable Energy (CURE), cites the lack of discussion of the impacts of the TNAP utility corridor and thermally enhanced oil recovery operations associated with this project as an inadequacy that they request be addressed during the CEQA review of this application.

If you have any questions, please call Kristina Bergquist, staff's Project Manager, at (916) 654-4242.

KENT SMITH  
Acting Executive Director

KS:KCB

Attachments

cc: Paul W. Dinkel, Texaco Global Gas and Power

## ATTACHMENT A

### OVERVIEW OF ENERGY COMMISSION STAFF'S DATA ADEQUACY DETERMINATION

Sunrise Cogeneration and Power Project  
98-AFC-4

January 15, 1999

TECHNICAL AREA	ADEQUATE	INADEQUATE
1. Air Quality		x
2. Biological Resources		x
3. Cultural Resources		x
4. Efficiency		x
5. Facility Design		x
6. Geological Hazards		x
7. Hazardous Material Handling		x
8. Land Use		x
9. Noise		x
10. Paleontologic Resources		x
11. Project Overview		x
a. Alternatives		x
b. Project Description		x
c. Demand Conformance	x	
12. Public Health		x
13. Reliability		x
14. Socioeconomics		x
15. Soils		x
16. Traffic and Transportation		x
17. Transmission System		x
18. Visual Resources		x
19. Waste Management		x
20. Water Resources		x
21. Worker Safety		x

# ATTACHMENT B

## ENERGY COMMISSION STAFF'S List of Data Inadequacies

### Sunrise Cogeneration and Power Project 98-AFC-4

January 15, 1999

#### Table of Contents

	<b>Page</b>
Air Quality .....	B-1
Biological Resources .....	B-7
Cultural Resources .....	B-11
Efficiency .....	B-15
Facility Design .....	B-17
Geological Hazards .....	B-20
Hazardous Materials Handling .....	B-22
Land Use .....	B-25
Noise .....	B-31
Paleontologic Resources .....	B-35
Project Overview .....	B-38
Public Health .....	B-44
Reliability .....	B-47
Socioeconomics .....	B-50
Soils .....	B-56
Traffic and Transportation .....	B-59
Transmission System (&TLSN) .....	B-63
Visual Resources .....	B-68
Waste Management .....	B-72
Water Resources .....	B-76
Worker Safety .....	B-81

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Air Quality Project: Sunrise Cogeneration and Power Project Technical Staff: Joseph M. Loyer  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Keith Golden

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Page 8.1-1 through 82 Section 8.1	No	Refer to Project Overview.
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.		No	District has stated that they will require additional information on the source of the potential ERCs.
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.	Page 7-1& 2, Section 7.0 Page 8.1-19, Section 8.1.4.3	Yes	

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Page 8.1-23, Table 8.1-10 Section 8.1.3	Yes	
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Page 2.9 through 10 Section 2.2.3.2	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.	Page 8.1-39, Table 8.1-16 Page 8.1-38, Table 8.1-15 Section 8.1.4.2	No	Refer to Project Overview.

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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.	Page 2-36, Section 2.2.16 Page 8.1-39, Table 8.1-16 Section 8.1.4.2 Appendix B, "Turbine Emission Calculation"	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.	Page 8.1-16 through 21, Tables 8.1-4 through 9, Section 8.1.2.2	Yes	

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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.	Page 8.1-12, Table 8.1-3 Section 8.1.2.1	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.)		NA	

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Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Appendix B, “Meteorological Data for Fellows 1992”  Appendix B, “Turbine Impacts Modeling Files”  Page 8.1-10, Section 8.1.2.1	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:			

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Appendix B (g) (8) (I) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM <sub>10</sub> ) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO <sub>x</sub> ), sulfur dioxide (SO <sub>2</sub> ), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM <sub>10</sub> )] from construction-related equipment;	Page 8.1-40 through 63, Section 8.1.4.3  Appendix B, "Construction Emission Calculations"	Yes	

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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 <sub>x</sub> , SO <sub>2</sub> , CO and PM <sub>10</sub> ) 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	Page 8.1-40 through 63, Section 8.1.4.3	Yes	

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Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard.	Page 8.1-73, Section 8.1.5	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;	Page 8.1-76, Table 8.1-27,  Section 8.1.6.1	Yes	

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Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions; and	Page 8.1-75, Section 8.1.6.1	No	The ERC source and location need to be specified.
Appendix B (g) (8) (J) (iii)	Method of emission reduction.	Page 8.1-75, Section 8.1.6.1	No	The ERC reduction method needs to be specified.
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.		No	The applicant must provide a map in the appropriate scale of the project site. The map must be readable for purposes of identifying the maximum air quality impact areas.

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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;	Page 8.1-2 Through 10, Section 8.1.1  Page 10-6 Through 8, Section 10	No	The applicant needs to provide the explicit AFC subsection(s) references where conformance with each LORS for construction and operation are discussed.
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Page 8.1-2 Through 10, Section 8.1.1  Page 10-6 Through 8, Section 10	Yes	

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Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 8.1-2 Through 10, Section 8.1.1  Page 10-6 Through 8, Section 10	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.	Page 8.1-81, Section 8.1.8	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Page 8.1-77, Table 8.1- 29, Section 8.1.7	Yes	

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Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Biological Resources

Project: Sunrise Cogeneration & Power Project

Technical Staff: Rick York

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dr. Jim Brownell

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 8.2-1 to 8.2-23 and Appendix C (Biological Resources Assessment)	No	Refer to discussion in Project Overview. Data Adequacy Worksheet
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.	Pages 8.2-3 to 8.2-5, Section 8.2.2  Map: Figure 2, page 10, Appendix C	Yes	

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Revision 0 Date January 15, 1999

Technical Area: Biological Resources Project: Sunrise Cogeneration & Power Project Technical Staff: Rick York  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Dr. Jim Brownell

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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.	Maps 1 to 14 and Tables 3 to 9 in Appendix C  Species lists: Table 8.2-9 (Vascular Plants) and Table 8.2-10 (Wildlife)  Sensitive biological resources: Pages 8.2-11 to 8.2-14, Tables 8.2-3 to 8.2-8	Yes	

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 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Dr. Jim Brownell

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Appendix B (g) (13) (C)	A description of all studies and surveys used to provide biological information about the project site, including seasonal surveys and <u>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.</u> Include the dates and duration of the studies, methods used to complete the studies, and the names and qualifications of individuals conducting the studies.	Methods: Pages 8.2-5 to 8.2-10, Section 8.2.3  Names/qualifications: Resumes in Appendix C	No	Copies of CNDDDB <b>Field Survey Forms</b> completed for this project need to be provided. Completed forms should also be provided to CNDDDB.

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 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Dr. Jim Brownell

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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: Pages 8.2-18 to 8.2-19, Section 8.2.4.2, Table 8.2-11	Yes	
Appendix B (g) (13) (E)	A discussion of the following:	---	---	---

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Appendix B (g) (13) (E) (i)	All measures proposed to avoid and/or reduce any adverse impacts;	Pages 8.2-20 to 8.2-23, Section 8.2.5	Yes	
Appendix B (g) (13) (E) (ii)	All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and	Pages 8.2-20 to 8.2-23, Section 8.2.5	Yes	
Appendix B (g) (13) (E) (iii)	Any educational programs proposed to enhance employee awareness in order to protect biological resources.	Page 8.2-20, Section 8.2.5	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.	Pages 8.2-20 to 8.2-23, Section 8.2.5	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.	Page 8.2-5, Section 8.2.2.3	Yes	

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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;	Pages 8.2-6 and 8.2-7, Tables 8.2-1 and 8.2-2	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	Pages 8.2-6 and 8.2-7, Tables 8.2-1 and 8.2-2	Yes	
Appendix B (g) (13) (H) (iii)	Species or habitats identified by legislative acts as requiring protection.	Pages 8.2-6 and 8.2-7, Tables 8.2-1 and 8.2-2	Yes	

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Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Page 8.2-23, Tables 8.2-6 and 8.2-7	Yes	

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Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pages 8.2-1 and 8.2-2, Section 8.2.1 and pages 10-1 to 10-21, Table 10-1, Section 10.0 LORS	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.	Page 8.2-23, Section 8.2.7	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Page 8.2-23, Section 8.2.6	Yes	

### DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate  Revision 0 Date January 15, 1999  
 Technical Area: Cultural Resources Project: SUNRISE COGENERATION AND Technical Staff: Dorothy Torres  
 Project: KRISTINA BERGQUIST Docket: 98-AFC-4 Technical: 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.	Confidential Appendix p.19 AFC 8.3-15 Confidential draft memorandum 12/98 p. 1-3	NO	Please provide a discussion of possible impacts due to maintenance on the project.  Please provide a discussion of the effectiveness of the proposed mitigation measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.  Please refer to Project Overview Data Adequacy Worksheet for questions regarding impacts from the two deep injection wells and TNAP utility corridor.
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 8.3-5 AFC 8.3-11	NO	Please provide a map at a scale of 1:24,000 indicating areas of ethnographic occupation.  A different scale may be used if a justification is supplied for the use of a scale other than 1:24,000.

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 Project: KRISTINA BERGQUIST Docket: 98-AFC-4 Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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 8.3-11 AFC 8.3-6 to 8.3-11	YES	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Cultural Resources Project: SUNRISE COGENERATION AND Technical Staff: Dorothy Torres  
 Project KRISTINA BERGQUIST Docket 98-AFC-4 Technical Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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.	Confidential Appendix p. 14  Confidential Appendix p. 19 & 20	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.	Confidential Appendix p.12	YES	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Cultural Resources Project: SUNRISE COGENERATION AND Technical Staff: Dorothy Torres  
 Project: KRISTINA BERGQUIST Docket: 98-AFC-4 Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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.	Confidential Appendix p. 20	YES	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Cultural Resources Project: SUNRISE COGENERATION AND Technical Staff: Dorothy Torres  
 Project: KRISTINA BERGQUIST Docket: 98-AFC-4 Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	AFC 10.9 to 10.10 AFC 8.3-2 to 8.3-4	NO	The table identifying laws etc. (AFC Section 10) should explicitly reference subsection(s) in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed.
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 10.9 to 10.10	YES	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Cultural Resources Project: SUNRISE COGENERATION AND Technical Staff: Dorothy Torres  
 Project: KRISTINA BERGQUIST Docket: 98-AFC-4 Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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).	Confidential Appendix p. 3	YES	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	AFC 8.3-16	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	AFC 8.3-16	YES	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Efficiency

Project: Sunrise Cogeneration and Power Project

Technical Staff: Steve Baker

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (4) (A)	Heat and mass balance diagrams for design conditions for each mode of operation.	§ 2.2.1, Appendix I-8	No	This information was submitted under a request for confidentiality, then withdrawn. Non-confidential resubmittal pending.
Appendix B (i) (4) (B)	Annual fuel consumption in BTUs for each mode of operation.	§ 2.2.3.1, 5.5, 7.0, Appendix I-8	No	This information was submitted under a request for confidentiality, then withdrawn. Non-confidential resubmittal pending.
Appendix B (i) (4) (C)	Annual net electrical energy produced in MWh for each mode of operation.	§ 1.1, 1.7, 2.2.16, Appendix I-8	No	This information was submitted under a request for confidentiality, then withdrawn. Non-confidential resubmittal pending.
Appendix B (i) (4) (D)	Number of hours the plant will be operated in each mode of operation in each year.	§ 1.7, Appendix I-8	No	This information was submitted under a request for confidentiality, then withdrawn. Non-confidential resubmittal pending.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   0   Date   January 15, 1999  

Technical Area:   Efficiency   Project:   Sunrise Cogeneration and Power Project   Technical Staff:   Steve Baker    
 Project:   Kristina Bergquist   Docket:   98-AFC-4   Technical:   Steve Baker  

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (4) (E)	If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards.	Appendix I-8	No	This information was submitted under a request for confidentiality, then withdrawn. Non-confidential resubmittal pending.
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.	§ 5.3	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Efficiency Project: Sunrise Cogeneration and Power Project Technical Staff: Steve Baker  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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;	§ 1.3, 1.6.2, 2.1.1	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.	§ 1.3, 1.6.2, 2.1.1	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Efficiency Project: Sunrise Cogeneration and Power Project Technical Staff: Steve Baker  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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).	Appendix I-8	No	This information was submitted under a request for confidentiality, then withdrawn. Non-confidential resubmittal pending.
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	

X DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat \_\_\_\_\_ Inadequate \_\_\_\_\_ X  
 Revision No 00 Date January 15, 1999

Technical Area: Facility Design Project: Sunrise Cogeneration and Power Project Technical Staff: Kisabuli  
 Project Kristina Bergquist Docket 98-AFC-4 Technical Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	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.	Appendix I-6	Yes	
Appendix B (i) (1) (B)	A discussion of any measures proposed to improve adverse site conditions.	Appendix I-7	Yes	
Appendix B (i) (1) (C)	A description of the proposed foundation types, design criteria (including derivation), analytical techniques, assumptions, loading conditions, and loading combinations to be used in the design of facility structures and major mechanical and electrical equipment.	Appendices I-1 and I-2	Yes	

X DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat \_\_\_\_\_ Inadequate \_\_\_\_\_

Revision No 00 Date January 15, 1999

Technical Area: Facility Design Project: Sunrise Cogeneration and Power Project Technical Staff: Kisabuli  
 Project Kristina Bergquist Docket 98-AFC-4 Technical Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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:			
Appendix B (i) (1) (D) (i)	The power generation system;	Section 2.2.3, Appendix I-3	Yes	
Appendix B (i) (1) (D) (ii)	The heat dissipation system;	N/A		
Appendix B (i) (1) (D) (iii)	The cooling water supply system, and, where applicable, pre-plant treatment procedures;	N/A		
Appendix B (i) (1) (D) (iv)	The atmospheric emission control system;	Sections 2.2.9 and 8.1	Yes	
Appendix B (i) (1) (D) (v)	The waste disposal system and on-site disposal sites;	Sections 2.2.7 and 8.13, Appendix I-3	Yes	

X DATA ADEQUACY WORKSHEET

Revision No 00 Date January 15, 1999

Adequacy Issue: Adequat \_\_\_\_\_ Inadequate \_\_\_\_\_

Technical Area: Facility Design Project: Sunrise Cogeneration and Power Project Technical Staff: Kisabuli  
 Project Kristina Bergquist Docket 98-AFC-4 Technical 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) (vi)	The noise emission abatement system;	Sections 2.2.3-1 and 8.5 Appendix I-3	Yes	
Appendix B (i) (1) (D) (vii)	The geothermal resource conveyance and re-injection lines (if applicable);	N/A		
Appendix B (i) (1) (D) (viii)	Switchyards/transformer systems; and	Sections 2.2.4 and 6.0, Appendix I-4	Yes	
Appendix B (i) (1) (D) (ix)	Other significant facilities, structures, or system components proposed by the applicant.	Appendix I	Yes	

X DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat \_\_\_\_\_ Inadequate \_\_\_\_\_ X  
 Revision No 00 Date January 15, 1999

Technical Area: Facility Design Project: Sunrise Cogeneration and Power Project Technical Staff: Kisabuli  
 Project Kristina Bergquist Docket 98-AFC-4 Technical Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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;	Pages 10-2 to 10-21 Table 10-1	No	Provide a table or matrix that identifies all applicable LORS and references subsection(s) in the AFC where conformance is discussed.
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.	Pages 10-2 to 10-21 Table 10-1	Yes	

X DATA ADEQUACY WORKSHEET

Revision No 00 Date January 15, 1999

Adequacy Issue: Adequat \_\_\_\_\_ Inadequate \_\_\_\_\_

Technical Area: Facility Design Project: Sunrise Cogeneration and Power Project Technical Staff: Kisabuli  
 Project Kristina Bergquist Docket 98-AFC-4 Technical Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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).	Page 9-3	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.	Page 9-3	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Pages 10-2 to 10-21 Table 10-1	Yes	

X DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date 01/15/99

Technical Area: Geological Hazards Project: Sunrise Cogeneration and Power Project Technical Staff: Robert Anderson  
 Project Kristina Bergquist Docket AFC-98-4 Technical Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 1, Page 8.15-1, Section 8.15.1, Page 8.15-3, Section 8.15.1.1, Page 8.15-9, Sections 8.15.1.2 and 1.3, Pages 8.15-11 through 13, Section 8.15.2 through 8.15.2.4, and Page 8.15-13, Section 8.15.3	No	Refer to Project Overview data adequacy worksheet.
Appendix B (g) (17) (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities;	Volume 1, Pages 8.15-1, Section 8.15.1, 8.15-3, Section 8.15.1.1, Pages 8.15-9 and 10, Sections 8.15.1.3 and 8.15.1.4	Yes	

X DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date 01/15/99

Technical Area: Geological Hazards Project: Sunrise Cogeneration and Power Project Technical Staff: Robert Anderson

Project Kristina Bergquist Docket AFC-98-4 Technical Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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 1, Pages 8.15-6, 8.15-7, and 8.15-8 Figure 8.15-4, Figure 8.15-5, and Figure 8.15-6; Pages 8.15-12 and 13	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 1, Page 8.15-11, Section 8.15.1.4	Yes	

X DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date 01/15/99

Technical Area: Geological Hazards Project: Sunrise Cogeneration and Power Project Technical Staff: Robert Anderson  
 Project Kristina Bergquist Docket AFC-98-4 Technical Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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;	Volume 1, Page 8.15-15, Section 8.15.4, Table 8.15-2	No	The Applicant needs to provide a discussion as to the applicability of each LORS listed in the text of the AFC with respect to Geologic Hazards. Along with the discussion the Applicant needs to include a reference in table 8.15-2 to indicate where in the text of the Geological Hazards portion of the AFC where a discussion of the conformance with each applicable LORS is presented.
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 1, Page 8.15-15, Section 8.15.4, Table 8.15-2	Yes	

X DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date 01/15/99

Technical Area: Geological Hazards Project: Sunrise Cogeneration and Power Project Technical Staff: Robert Anderson  
 Project Kristina Bergquist Docket AFC-98-4 Technical Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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).	Volume 1, Pages 8.15-13 and 8.15-14, Section 8.15.4, Page 8.15-15, Table 8.15-2	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Volume 1, Page 8.15-14, Section 8.15.5	No	The applicant needs to supply the name of the point of contact with the Kern County Building Department.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   0   Date   January 15, 1999  

Technical Area:   Hazardous Materials Handling   Project:   Sunrise Cogeneration Project  

Technical Staff:   R. Tyler  

Project   K. Bergquist   Docket   98-AFC-4  

Technical   S. Baker  

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 8.12 pages 1-26	No	Refer to Project Overview section.
Appendix B (g) (10) (A)	A list of all materials used or stored on-site which are hazardous or acutely hazardous, as defined in Title 22, California Code of Regulations, § 66261.20 et seq., and a discussion of the toxicity of each material.	Table 8.12-1 and 8.12-2 Sections 8.12.3.1, 8.12.3.2 and 8.12.3.3 pages 5 – 16	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Hazardous Materials Handling Project: Sunrise Cogeneration Project

Technical Staff: R. Tyler

Project K. Bergquist Docket 98-AFC-4

Technical S. Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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.	Section 8.6, Figure 8.6-2 Page 4	Yes	While the map provided does describe the affected area in sufficient detail and does encompass the area that would be affected by an accidental release. No justification for use of a different scale was provided.
Appendix B (g) (10) (C)	A discussion of the storage and handling system for each hazardous material used or stored at the site.	Sections 8.12.3.2 and 8.12.3.3 pages 9 –15	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.	Sections 8.12.4.1 and 8.12.4.2 pages 17 – 21	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   0   Date   January 15, 1999  

Technical Area:   Hazardous Materials Handling   Project:   Sunrise Cogeneration Project   Technical Staff:   R. Tyler    
 Project:   K. Bergquist   Docket:   98-AFC-4   Technical:   S. Baker  

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (10) (E)	A discussion of whether a risk management plan (Health and Safety Code § 25531 et seq.) will be required, and if so, the requirements that will likely be incorporated into the plan.	Section 8.12.6 page 25	Yes	
Appendix B (g) (10) (F)	A discussion of measures proposed to reduce the risk of any release of hazardous materials.	Section 8.12.6 pages 23 – 26	Yes	
Appendix B (g) (10) (G)	A discussion of the fire and explosion risks associated with the project.	Section 8.12.5 pages 21 – 23	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Hazardous Materials Handling Project: Sunrise Cogeneration Project Technical Staff: R. Tyler  
 Project K. Bergquist Docket 98-AFC-4 Technical S. Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 8.12.1 pages 1 – 3	No	While compliance with applicable requirements is discussed in section 8.12.6 there is no table or matrix which references the subsection(s) where the discussion is provided
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 8.12.7 page 26	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Hazardous Materials Handling Project: Sunrise Cogeneration Project Technical Staff: R. Tyler  
 Project K. Bergquist Docket 98-AFC-4 Technical S. Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 8.12 .6 pages 23 – 26	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 8.12.7 page 26	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.	NA, no permits required only administrative approvals which must be obtained prior to issuance of an occupancy permit	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Land Use

Project: Sunrise Cogeneration and Power

Technical Staff: Amanda Stennick

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: 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.	Sections 6.0; 8.4.2.1; 8.4.2.3; 8.4.4; 8.4.4.1; 8.4.4.2; 8.4.4.3; 8.4.5; 8.4.6	No	See project overview
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:	Tables 8.4-3; -4; -5, Figures 8.4-2, -3	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,	Sections 8.4.3.1, 8.4.3.2	No	Although the site and transmission line route are situated in an area zoned and designated for agricultural use (Tables 8.4-3; -4; -5 Figures 8.4-2; -3), sections 8.4.3.1 and

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Land Use

Project: Sunrise Cogeneration and Power

Technical Staff: Amanda Stennick

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
	and historic areas, and any other area of unique land uses;			8.4.4.3 state that there are no agricultural areas within a one-mile radius of the site. If agricultural lands currently are not being farmed, please state when the last time non-federal-, state- for industry-owned lands (private lands) have been farmed, and if owners have expectations in the foreseeable future to put these lands into production. Also, section 8.4.2.3 states that a portion of the transmission line will traverse areas under a Williamson Act contract. Please state how these lands are being used (farming – what crop, grazing) and whether the Kern County zoning code allows above-ground transmission facilities on lands under contract.
Appendix B (g) (3) (A) (ii)	A discussion of any trends in recent zoning changes and potential future land use development;	Sections 8.4.3.1; 6.0	No	Please provide a discussion of any recent zone changes and potential future land use development. In this discussion, please

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Land Use

Project: Sunrise Cogeneration and Power

Technical Staff: Amanda Stennick

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
				include the La Paloma Project, Elk Hills, and the TNAP.
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	Not Given	No	Please provide a list and discussion 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); please include discussion of agency approvals by the Department of Conservation's Division of Oil, Gas, and Geothermal Resources and Kern County requirements for compliance with the Subdivision Map Act (also see discussion under (g)(3)(B).
Appendix B (g) (3) (A) iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Figures 8.4-1; -2; -3	Yes	

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Project: Kristina Bergquist

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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	Sections 1.5; 6.0; 8.4.3.1; 8.4.4.2; 8.4.4.3, Figure 1-1	No	Page 1-4 of the AFC states that Sunrise will lease 16 acres from TNAP. This parcel (APN 183-210-06) is an 80-acre parcel of record and is zoned "A" (Exclusive Agriculture). The "A" zone requires a minimum parcel size of 20 acres. Therefore, if the applicant leases a portion of the 80-acre parcel, the project would trigger the Subdivision Map Act and would thus require tentative and final maps of the newly created parcel. Also, the applicant may not be able to create a 16-acre parcel in Kern County in the Exclusive Agriculture zone. Staff suggests that the applicant discuss the project's land use requirements with Kern County regarding the Subdivision Map Act and the proposed 16 acre parcel. The applicant also should determine from Kern County whether, absent the CEC's jurisdiction, Kern County would require a conditional use permit for the project. The

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Revision 0 Date January 15, 1999

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Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
				<p>applicant should then provide to the CEC the results of the meeting, including any completed applications for a tentative map, or variance for parcel size, as required by Kern County.</p> <p>Pages 6-12 of the AFC states that a portion of the transmission line is routed through an active oil field. An August 4, 1998 letter from Department of Conservation's Division of Oil, Gas, and Geothermal Resources (Division) states that if development results in the construction of a structure within 50 feet of a well, the Division district office in Bakersfield must be contacted to investigate the condition of the wellhead and check for leakage. In addition, the Division recommends that no structure, pipeline or transmission line be built over or in proximity of a well location as routine maintenance and abandonment operations require the erection</p>

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

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Docket: 98-AFC-4

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
				of a portable derrick to conduct these and other operations. The Division recommends that projects within active oil fields coordinate activities with well owners so pipeline and transmission line construction does not result in hazardous situations. The Division further requests that the wells be plotted accurately on all future maps related to projects and that a legible copy of the final project map be submitted to the Division district office Bakersfield. Please provide to the CEC and the Department of Conservation's Division of Oil, Gas, and Geothermal Resources (Bakersfield Office) a legible map of all linear facilities, showing all wells within 50 feet of proposed corridors.
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:	Not Given	No	Based on information contained in the AFC, CEC staff is unsure whether any lands within the project site and linear facilities are under cultivation. If no lands are under cultivation,

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

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Docket: 98-AFC-4

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
				no map is needed. However, please provide information as requested under Appendix B(g)(3)(A)(i) regarding current and future cultivation on non-industry owned, privately-owned parcels.
Appendix B (g) (15) (B) (i)	Crop types, irrigation systems, and any special cultivation practices; and	Not Given	No	(see above)
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.	Not Given	No	Section 8.9.3 states that soils are not currently used for agricultural and are not prime farmland in their current condition. Please indicate the status of farmlands as defined by the Natural Resource Conservation Service of the California Department of Conservation, for all land within one mile of the project site and one-quarter mile of project-related linear facilities.
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural	Section 8.9.2.4	Yes	Depending on responses to Appendix B(g)(3)(A)(I) and B(g)(15)(B)(ii),

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

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Technical Staff: Amanda Stennick

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
	land uses. This decision shall include:			information in the AFC regarding the effects of the proposed project on soil resources and agricultural land uses may have to be amended.
Appendix B (g) (15) (C) (ii)	Direct and indirect effects on agricultural land uses; and	Sections 8.9.2.4; 8.9.3	Yes	Depending on responses to Appendix B(g)(3)(A)(I) and B(g)(15)(B)(ii), information in the AFC regarding direct and indirect effects on agricultural land uses may have to be amended.
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 10-1	No	See project overview. The table lists the technical section in the AFC where conformance is discussed but does not explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed. In addition, depending on responses to information to complete data adequacy, Table 10-1 may need to be amended to include land use requirements of Kern

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

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Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
				County, and Department of Conservation's Division of Oil, Gas, and Geothermal Resources.
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 10-1	Yes	Depending on responses to information to complete data adequacy, Table 10-1 may need to be amended to include land use requirements of Kern County, and Department of Conservation's Division of Oil, Gas, and Geothermal Resources.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 8.4.8	Yes	Depending on responses to information to complete data adequacy, Section 8.4.8 may need to be amended to include a discussion of the project's conformance with the land use requirements of Kern County, and Department of Conservation's Division of Oil, Gas, and Geothermal Resources.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Land Use Project: Sunrise Cogeneration and Power Technical Staff: Amanda Stennick  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 8.4.7	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 8.4.9	Yes	Depending on responses to information to complete data adequacy, Section 8.4.9 may need to be amended to include a schedule indicating when the project will be in compliance with the Subdivision Map Act, and any other land use requirements of Kern County, and the Department of Conservation's Division of Oil, Gas, and Geothermal Resources.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15 1999

Technical Area: Noise

Project: Sunrise Cogeneration

Technical Staff: Kisabuli

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 8.5-2 to 8.5-4 Page 8.5-13 to 8.5-19	No	Page 8.5-15 of the AFC indicates that the two residences (Site 2) will be exposed to noise levels that are 1.3 dBA above the Kern County desirable maximum L <sub>50</sub> noise level. Please provide a discussion of the mitigation measures that will result in the compliance of the Kern County Noise Element.
Appendix B (g) (4) (A)	A land use map, which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet, is an important attribute of the environment within the area impacted by the proposed project. The area impacted by the proposed project is that area where there is a potential increase of 5 dB(A) or more, during either construction or operation, over existing background levels.	Figure 1-1 Figure 8.5-1	No	On figure 8.5-1 of the AFC, show the 5dBA noise contours. If any sensitive receptors are within the 5dBA contour, please identify them on the map and provide a discussion of the mitigation measures that will be used to reduce the noise impact to acceptable levels.

## DATA ADEQUACY WORKSHEET

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Revision 0 Date January 15, 1999

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Appendix B (g) (4) (B)	<p>A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for a duration at the applicant's discretion during the same 25-hour period. The results of the noise level measurements shall be reported in <math>L_{eq}</math> (equivalent sound or noise level), <math>L_{dn}</math> (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The <math>L_{10}</math>, <math>L_{50}</math>, and <math>L_{90}</math> values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported.</p>	<p>Pages 8.5-5 to 8.5-11 Table 8.5-2 Figure 8.5-3</p>	Yes	

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Docket: 98-AFC-4

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (C)	A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.	Page 8.5-14 & Table 8.5-6 Page 8.5-18 & Table 8.5-8	No	Please provide the tonal characteristics of the equipment identified on Table 8.5-6 of the AFC.
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.	Pages 8.5-14 to 8.5-19 Page 8.5-14 & Table 8.5-6 Page 8.5-18 & Table 8.5-8	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.	Page 8.5-19	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

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Docket: 98-AFC-4

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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.	Pages 6-29 to 6-33 Figure 6-7	No	Please provide an estimate of the noise levels that would result from the proposed switchyard. Please estimate the impact of these noise levels to the workers at the site and the nearest sensitive receptors, during both construction and operation of the facility.
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 8.5-1 Pages 10-2 to 10-21 Table 10-1	Yes	

## DATA ADEQUACY WORKSHEET

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Revision 0 Date January 15, 1999

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Technical Staff: Kisabuli

Project: Kristina Bergquist

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Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Page 10-12 & Table 10-1	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pages 8.5-13 to 8.5-19	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.	Page 8.5-19	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   0   Date   January 15, 1999  

Technical Area:   Noise   Project:   Sunrise Cogeneration   Technical Staff:   Kisabuli    
 Project:   Kristina Bergquist   Docket:   98-AFC-4   Technical:   Steve Baker  

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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.	Page 8.5-19	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15 1999

Technical Area: Paleontologic Resources

Project: Sunrise Cogeneration and Power

Technical Staff: Robert Anderson

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 1, Pages 8.16-2 through 8.16-9, Sections 8.16.2, 8.16.2.1, and 8.16.2.2; Pages 8.16-10 and 11, Section 8.16.3,	No	Refer to Project Overview section.
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 1, Pages 8.16-5 through 8.16-10, Section 8.16.2.2	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

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 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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 1, Pages 8.16-10 and 11, Section 8.16.3	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.	Volume 1, Pages 8.16-3, 4, and 5, Section 8.16.2.1	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Paleontologic Resources Project: Sunrise Cogeneration and Power Technical Staff: Robert Anderson  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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 2, Appendix H, Pages 3 through 8, Pages 29 through 33, and cover letter to Appendix H report	Yes	
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 1, Page 8.16-17, Section 8.16.5.5	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

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 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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;	Volume 1, Pages 8.16-1 and 2, Sections 8.16.1.1, 8.16.1.2, and 8.16.1.3	No	Reference subsection(s) in the application wherein conformance with each law or standard is discussed.
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 1, Page 8.16-18, Sections 8.16.6 and 8.16.7	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Paleontologic Resources Project: Sunrise Cogeneration and Power Technical Staff: Robert Anderson  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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).	Volume 1, Page 8.16-18, Sections 8.16.6 and 8- 16.7	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Volume 1, Page 8.16-18, Section 8.16.6	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Volume 1, Page 8.16-18, Section 8.16.7	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15 1998

Technical Area: Project Overview

Project: Sunrise Cogeneration

Technical Staff: Kristina Bergquist

Project Manager: Kristina Bergquist

Docket: 98-AFC-4

Technical Senior: Roger E. Johnson

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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.	See the attached individual data adequacy worksheets.		
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	See the attached individual data adequacy worksheets.		
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	Technical sections and appendices	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1998

Technical Area:	<b>Project Overview</b>	Project:	Sunrise Cogeneration	Technical Staff:	Kristina Bergquist
Project Manager:	Kristina Bergquist	Docket :	98-AFC-4	Technical Senior:	Roger E. Johnson

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) (4)	Each principle 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.	Entire document	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.	Page 1-4 through 1-29, Section 1.0, and Page 2-1 through 2-41, Section 2.0	No	Provide a general description of the two deep injection wells and the TNAP utility corridor that is mentioned in the AFC.
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessors parcel numbers.	Page 1-4, Figure 1-1 and Page 2-3, Section 2.2	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   0   Date   January 15, 1998  

Technical Area: <b>Project Overview</b>	Project: Sunrise Cogeneration	Technical Staff: Kristina Bergquist
Project Manager: Kristina Bergquist	Docket : 98-AFC-4	Technical Senior: Roger E. Johnson

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) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Page 2-3 Section 2.2 and Page 6-1, Section 6.1	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.	Page 1-9, Figure 1—3 and Page 1-10, Figure 1-4	Yes	
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	Appendix D	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15 1998

Technical Area:	<b>Project Overview</b>	Project:	Sunrise Cogeneration	Technical Staff:	Kristina Bergquist
Project Manager:	Kristina Bergquist	Docket :	98-AFC-4	Technical Senior:	Roger E. Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Page 2-35, Table 2-3	Yes	
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Page 1-2, Section 1.2	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Page 6-1 through 6-50, Section 6.0 and Page 6-7 through Page 6-11, Figure 6-4A through 6-4E	No	Please specify who will own the Valley Acres Substation.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1998

Technical Area:	<b>Project Overview</b>	Project:	Sunrise Cogeneration	Technical Staff:	Kristina Bergquist
Project Manager:	Kristina Bergquist	Docket :	98-AFC-4	Technical Senior:	Roger E. Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Page 1-2, Section 1.2 and Page 6-1 through 6-50, Section 6.0	No	Please specify legal relationship between applicant and owners of property within transmission line right-of-way, e.g., grant of easement and interconnection agreement.
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;	Page 2-2, Figure 2-1 and Page 6-7 through 6-11, Figure 6-4A through 6-4E	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;	Page 2-2, Figure 2-1 and Page 2-5, Figure 2-2	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   0   Date   January 15, 1998  

Technical Area: <b>Project Overview</b>	Project: Sunrise Cogeneration	Technical Staff: Kristina Bergquist
Project Manager: Kristina Bergquist	Docket : 98-AFC-4	Technical Senior: Roger E. Johnson

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	Page 2-1 through Page 2-41 Section 2.0 and Appendix I-2	No	Please provide a detailed description of the design, permitting, construction, and operation of the two deep injection wells and the TNAP utility corridor that will be used by the project.  Explain the relationship of these facilities to the project.
Appendix B (b) (1) (D)	A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant.	Page 5-1 through 5-16, Section 5.0	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1998

Technical Area: Project Overview Project: Sunrise Cogeneration Technical Staff: Kristina Bergquist  
 Project Manager: Kristina Bergquist Docket: 98-AFC-4 Technical Senior: Roger E. Johnson

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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).	Page 6-7 through 6-8, Figures 6-4A and Figure 6-4B and Page 6-43, Figure 6-13	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.	Page 1-11, Figure 1-5, and Page 1-12, Figure 1-6	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1998

Technical Area: <b>Project Overview</b>	Project: Sunrise Cogeneration	Technical Staff: Kristina Bergquist
Project Manager: Kristina Bergquist	Docket : 98-AFC-4	Technical Senior: Roger E. Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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.	Page 3-1 through 3-2, Demand Conformance Section	Yes	
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.	N/A	N/A	

## DATA ADEQUACY WORKSHEET

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Revision   0   Date   January 15, 1998  

Technical Area:	<b>Project Overview</b>	Project:	Sunrise Cogeneration	Technical Staff:	Kristina Bergquist
Project Manager:	Kristina Bergquist	Docket :	98-AFC-4	Technical Senior:	Roger E. Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (d) (2)	Updates of any significant information which has changed since the Commission's Final Decision on the NOI.	N/A	N/A	
Appendix B (e) (1)	A schedule for the development of a preliminary plan for closing the project facilities when the project ceases operation at the end of its useful life.	Page 4-2, Section 4.2	Yes	
Appendix B (e) (2)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Page 4-1, Section 4.1	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   0   Date   January 15, 1998  

Technical Area:	<b>Project Overview</b>	Project:	Sunrise Cogeneration	Technical Staff:	Kristina Bergquist
Project Manager:	Kristina Bergquist	Docket :	98-AFC-4	Technical Senior:	Roger E. Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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.	Page 5-5, Section 5.2	No	Please delineate the general location of the steam host. Proximity to the steam host is noted as the most significant factor for selecting the preferred site.
Appendix B (f) (2)	An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1).	Page 5-1 through 5-16, Section 5.0  Page 6-40 through 6-46, Section 6.3.1	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1998

Technical Area:	<b>Project Overview</b>	Project:	Sunrise Cogeneration	Technical Staff:	Kristina Bergquist
Project Manager:	Kristina Bergquist	Docket :	98-AFC-4	Technical Senior:	Roger E. Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	8.0 Environmental Impacts	No	This comment is applicable to all Appendix B (g)(1) sections for each environmental technical area:  Provide a discussion of indirect and cumulative impacts of the project for each environmental technical area. Include the TNAP Kern-Sunset oilfield improvements (including, but not limited to, the TNAP utility corridor and the two deep injection wells), the La Paloma Generating Project, Elk Hills Power Plant Project, and any other reasonably foreseeable development in the project vicinity.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Public Health

Project: Sunrise

Technical Staff: Obed Odoemelam

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Chris Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 8.6.1, page 8.6-1 Section 8.6.3, page 8.6-5	No	Refer to the Project Overview Data Adequacy Worksheet.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Public Health  
Project: Kristina Bergquist

Project: Sunrise  
Docket: 98-AFC-4

Technical Staff: Obed Odoemelam  
Technical: Chris Tooker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (9) (A)	A list of all toxic substances emitted by the project under normal operating conditions, which may cause an adverse public health impact as a result of acute, chronic, or sub-chronic exposure and to which members of the public may be exposed. This list should include, at a minimum, any pollutants emitted by the project that are listed pursuant to Health and Safety Code § 25249.8.	Table 8.6-1, page 8.6-6 Table 8.6-2, page 8.6-7	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.	Sections 8.6.3.3 through 8.6.3.6, pages 8.6-7 through 8.6-11	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Public Health

Project: Sunrise

Technical Staff: Obed Odoemelam

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Chris Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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.	Figure 8.6-1, page 8.6-2	No	Provide a written explanation of why the different scale map (1:100,000) is more appropriate.
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).	Figure 8.6-2, page 8.6-4	No	Provide a written explanation of why the different scale map (1:100,000) is more appropriate.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Public Health

Project: Sunrise

Technical Staff: Obed Odoemelam

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Chris Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 10.0, pages 10-12 to 10-13	No	Identify specific subsection(s) in which conformance with LORS is discussed.
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 10.0, pages 10-12 to 10-13	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Public Health

Project: Sunrise

Technical Staff: Obed Odoemelum

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Chris Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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).	Sections 8.6.3.2 through 8.6.3.10, pages 8.6-5 to 8.6-14	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 8.6.5, page 8.6-17	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 10.0, pages 10-12 to 10-13	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15 1999

Technical Area: Reliability Project: Sunrise Cogeneration and Power Project Technical Staff: Steve Baker  
 Project Kristina Bergquist Docket 98-AFC-4 Technical Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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.	§ 1.6.5, 2.2.5, 2.4.3, 5.3.3, 5.5, 7.0	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;	§ 1.7, 2.2.16, 2.4.1	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Reliability Project: Sunrise Cogeneration and Power Project Technical Staff: Steve Baker  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (3) (B) (ii)	The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system;	§ 1.1, 1.6.2, 1.6.5, 1.6.6, 1.8, 1.9.14, 2.2.2, 2.2.3.1, 2.2.4.3, 2.2.5, 2.2.6.2, 2.2.11.3, 2.3.1, 2.4.2, 2.4.3, 2.4.4, 2.4.5, 5.5, 7.0, Appendix I-6	Yes	
Appendix B (i) (3) (B) (iii)	Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability;	§ 1.8, 1.9.15, 2.3.1	Yes	
Appendix B (i) (3) (B) (iv)	Special design features adopted by the applicant or resource supplier to ensure power plant reliability; and	§ 1.1, 1.6.2, 1.8, 1.9.15, 2.2.2, 2.2.3.1, 2.2.4.3, 2.2.11.3, 2.3.1, 2.4, 5.5, 7.0, Appendix I-6	Yes	
Appendix B (i) (3) (B) (v)	The expected power plant maturation period.	Not Found.	No	Describe the expected maturation period for the project equipment and technology.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Reliability Project: Sunrise Cogeneration and Power Project Technical Staff: Steve Baker  
 Project Kristina Bergquist Docket 98-AFC-4 Technical Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 10-1; Appendix I-1, § 2.1, 2.2; Appendix I-2, § 2.0; Appendix I-3, § 2.1, 2.2; Appendix I-4, § 2.0	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	

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Technical Area: Reliability Project: Sunrise Cogeneration and Power Project Technical Staff: Steve Baker  
 Project Kristina Bergquist Docket 98-AFC-4 Technical Steve Baker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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).	§ 1.8, 1.9.15, 2.3.1, 2.4.5, Appendices I-1 through I-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.	§ 9.0	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	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Socioeconomics

Project: Sunrise

Technical Staff: Joseph Diamond

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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, Vol. I 2.0, Project Description p. 2-1, pp. 2-3 to 2-4  2.2.15 Project Construction, pp. 2-34 to 2-35  2.2.16 Plant Operation, p. 2-36  2.5 LORS, p. 2-41  8.8.2 Affected Environment, p. 8.8-2  8.8.3 Environmental Consequences pp. 8.8-27-32  8.8.3.9 Mitigation Measures, p. 8.8-33	No	Provide a discussion of indirect (and induced) economic impacts. You might use the La Paloma AFC's –Implan Type II construction employment multiplier of 3.23 and the Implan Type II operation employment multiplier of 2.88

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Technical Staff: Joseph Diamond

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:	-	-	-
Appendix B (g) (7) (A) (i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	8.8.2.2 Economy, pp. 8.8-8 to 8.8-13  8.8.2.5 Fiscal Resource pp. 8.8-17 & 18	No	Provide projected Kern County revenues. See La Paloma AFC errata sheet p. 5.10-6a/Table 5.10-3A for guidance
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	8.8.2.1 Population pp. 8.8-2 to 8.8-8	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	8.8.2.1 Population pp. 8.8-2 to 8.8-8	Yes	
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	8.8.2.3 Plant Construction pp. 8.8-13 to 8.8-17	Yes	

## DATA ADEQUACY WORKSHEET

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Revision 0 Date January 15, 1999

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Project: Sunrise

Technical Staff: Joseph Diamond

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing; and	8.8.2.6 Housing p. 8.8-18 8.8.2.7 Temporary Housing pp. 8.8-18 to 8.8-19	Yes	

## DATA ADEQUACY WORKSHEET

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Technical Area: Socioeconomics

Project: Sunrise

Technical Staff: Joseph Diamond

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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.	8.8.2.8 Public Services pp.8.8-19 to 8.8.21  8.8.2.9 Hospitals pp.8.8- 21 to 8.8-22  8.8.2.10 Utilities pp. 8.8- 22 to 8.8-23  8.8.2.11 Education pp.8.8-23 to 8.8-27  8.8.3.5 Impacts on Education pp.8.8-30 to 8.8-31  8.8.3.6 Impact on Public Service p. 8.8-21  8.8.3.7 Impact on Utilities p. 8.8-31	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   0   Date   January 15, 1999  

Technical Area:   Socioeconomics  

Project:   Sunrise  

Technical Staff:   Joseph Diamond  

Project:   Kristina Bergquist  

Docket:   98-AFC-4  

Technical:   Dale Edwards  

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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;	8.8.2.3 Plant Construction pp. 8.8-13 to 8.8-16  8.8.2.4 Plant Operation Workforce pp. 8.8-16 to 8.8-17	Yes	
Appendix B (g) (7) (B) (ii)	An estimate of the number and percentage of workers who will commute daily, commute weekly, or relocate in order to work on the project;	2.2.15 Plant Construction p. 2-35	Yes	

## DATA ADEQUACY WORKSHEET

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Revision 0 Date January 15, 1999

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Technical Staff: Joseph Diamond

Project: Kristina Bergquist

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Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	2.2.15 Plant Construction p. 2-35  8.8.3.2 Impact on Employment and Economy – Plant Construction pp. 8.8-28 to 8.8-29  8.8.3.5 Impact on Education p. 8.8-30	No	Provide a quantification of total population (non-local) numbers relocated for plant construction.
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	8.8.2.6 Housing p. 8-8-18  8.8.2.7 Temporary Housing pp. 8.8-18 to 8.8-19.  8.8.3.3 Impacts on Population and Housing p. 8.8-29	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Socioeconomics

Project: Sunrise

Technical Staff: Joseph Diamond

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operation phases;	8.8.2.8 Public Services p. 8.8-19 to 8.8-21  8.8.2.9 Hospitals p. 8.8-21 to 8.8-22  8.8.2.10 Utilities pp. 8.8-22 to 8.8-23  8.8.2.11 Education pp. 8.8-23 to 8.8-27  8.8.3.5 Impact on Education pp. 8.8-30 to 8.8-31  8.8.3.6 Impact on Public Services p. 8.8-31  8.8.3.7 Impact on Utilities p. 8.8-31	Yes	

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Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Socioeconomics

Project: Sunrise

Technical Staff: Joseph Diamond

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	8.8.2.2 Economy/County Budget pp. 8.8-9 to 8.8-11  8.8.3.4 Impact on Fiscal Resources p. 8.8-29	No	Provide an estimate of development fees for school districts.
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and an estimate of the total operation payroll;	8.8.3.4 Impact on Fiscal Resources p. 8.8-29	Yes	
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project; and	8.8.3.4 Impacts on Fiscal Resources pp. 8.8-29 to 8.8-30  8.8.2.5 Fiscal Resources p. 8.8-17	Yes	
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost of the project of the potential impacts on tax revenues from construction and operation of the project.	8.8.2.5 Fiscal Resources pp. 8.8-17 to 8.8-18	Yes	

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Revision 0 Date January 15, 1999

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Project: Sunrise

Technical Staff: Joseph Diamond

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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;	10.0 Laws, Ordinances, Regulations, and Standards Table 10-1, p. 10-14	No	Include development fees for school districts. See La Paloma AFC Table 7.1-1 page 7.1-14. Please provide subsection where conformance is discussed.
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.	10.0 Laws, Ordinances, Regulations, and Standards Table 10-1, p. 10-14	No	Include agency and jurisdiction for development fees for school districts. See La Paloma AFC Table 7.1-1, page 7.1-14.

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Revision 0 Date January 15, 1999

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Project: Sunrise

Technical Staff: Joseph Diamond

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Dale Edwards

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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).	8.8.1 Laws, Ordinances, Regulations and Standards p. 8.8-1	No	Provide a discussion of development fees for school districts. See La Paloma AFC 7.5.10 Socioeconomics, p. 7.5-19.
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	Provide a list of agency contacts.
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

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Soils

Project: Sunrise Cogeneration and Power

Technical Staff: Joe O'Hagan

Project: Kristina Bergquist

Docket: 98-ARC-4

Technical: Dr. Jim Brownell

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 8.9-9 to 8.9-14; Sections 8.9.2.1 to 8.9.2.2, 8.9.3	No	Refer to cumulative impact discussion in project overview.
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:	Pages 8.9-2 to 8.9-9, 8.9-11 to 12; Figures 8.9-1 to 8.9-3; Tables 8.9-1 and 8.9-2	Yes	

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Revision 0 Date January 15, 1999

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Technical Staff: Joe O'Hagan

Project: Kristina Bergquist

Docket: 98-ARC-4

Technical: Dr. Jim Brownell

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; and	Pages 8.9.4-9 to 8.9-10, 8.9-13; Sections 8.9.2.2, 8.9.2.4; Table 8.9.2	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.	Pages 8.9-4 to 8.9-8; Table 8.9.2	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:	Pages 8.9-9 to 8.9-13; Sections 8.9.2.1 to 8.9.2.2	Yes	
Appendix B (g) (15) (C) (i)	The quantification of accelerated soil loss due to wind and water erosion;	Pages 8.9-9 to 8.9-10; Section 8.9.2.1	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Soils Project: Sunrise Cogeneration and Power Technical Staff: Joe O'Hagan  
 Project: Kristina Bergquist Docket: 98-ARC-4 Technical: Dr. Jim Brownell

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (15) (C) (iii)	The effect of power plant emissions on surrounding soil-vegetation systems.	Pages 2-19, 8.1-70 to 8.1-72; Sections 2.2.7.1, 8.1.4.6	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Tables 8.9-3, 10-1	No	Provide subsection references in application where conformance with identified laws or standards are discussed.

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Revision 0 Date January 15, 1999

Technical Area: Soils

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Technical Staff: Joe O'Hagan

Project: Kristina Bergquist

Docket: 98-ARC-4

Technical: Dr. Jim Brownell

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Tables 8.9-3, 10-1	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 8.9-3	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Page 8.9-16; Section 8.9.5	No	Provide contact , title and phone number of Kern County Public Works Department contact.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   0   Date   January 15, 1999  

Technical Area:   Soils   Project:   Sunrise Cogeneration and Power   Technical Staff:   Joe O'Hagan    
 Project   Kristina Bergquist   Docket   98-ARC-4   Technical   Dr. Jim Brownell  

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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.	Page 8.9-16; Section 8.9.6	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15 1999

Technical Area: Traffic and Transportation Project: Sunrise Cogeneration and Power Project Technical Staff: David Flores  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: \_\_\_\_\_

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 Sec.8.10.2.1  Pgs. 8.10-3 through 8.10-21	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.	AFC Sec.8.10.1.3, Pg.8.10-2  Sec. 8.10.2.1, Pg. 8.10- 3.5  Figure 8.10-1	No	Provide justification for submitting scaled map of 1"=500,000.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Traffic and Transportation Project: Sunrise Cogeneration and Power Project Technical Staff: David Flores  
 Project Kristina Bergquist Docket 98-AFC-4 Technical

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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:	AFC Section 8.10.2.1 Figure 8.10-2	No	Provide 1:24,000 map identifying rail lines, pipelines, and canals, etc. as indicated under this appendix.
Appendix B (g) (5) (B) (i)	Road classification and design capacity;	AFC Section 8.10.2.1, Pg. 8.10-6	Yes	
Appendix B (g) (5) (B) (ii)	Current daily average and peak traffic counts;	AFC Section 8.10.2.1 Table 8.10-1, Pg. 8.10-7	Yes	

## DATA ADEQUACY WORKSHEET

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Revision 0 Date January 15, 1999

Technical Area: Traffic and Transportation Project: Sunrise Cogeneration and Power Project Technical Staff: David Flores  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: \_\_\_\_\_

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (B) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	AFC Sec.10.2.1, Pg.8.10-6  Table 8.10-1, Pg. 8.10-7  Figure 8.10-2, Pg. 8.10-8  Figure 8.10-7, Pg.8 10-6  Pgs. 8.10-9 through 16	No	Provide change in LOS caused by project operation.
Appendix B (g) (5) (B) (iv)	Weight and load limitations;		No	Provide weight load limitations for county and state highway roadway systems.
Appendix B (g) (5) (B) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Table 8.10-1, Pg.8.10-6-9	Yes	
Appendix B (g) (5) (B) (vi)	An identification of any road features affecting public safety.		No	As a public safety concern, provide discussion or table of areas of high accident occurrence within the affected area. If none, provide a statement as such.

## DATA ADEQUACY WORKSHEET

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Revision 0 Date January 15, 1999

Technical Area: Traffic and Transportation Project: Sunrise Cogeneration and Power Project Technical Staff: David Flores  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: \_\_\_\_\_

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 8.10.2.1, Pg. 8.10-5	No	Provide discussion of proposed State or County roadway improvements proposed within project area, if any, as well as any proposals within the Transportation Improvement Plan (TIP). If nothing proposed, provide statement to that effect.
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).	AFC Sec. 8.10.3.2, Table 8.10-6, Pg.8.10-13. Table 8.10-7 Pgs.8.10-15, 16, 17,18,19	No	Provide discussion on the use of rail for deliveries, if the applicant is considering.

## DATA ADEQUACY WORKSHEET

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Revision 0 Date January 15, 1999

Technical Area: Traffic and Transportation Project: Sunrise Cogeneration and Power Project Technical Staff: David Flores  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: \_\_\_\_\_

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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.	AFC Sec. 8.10, Pg.10-18 Sec. 8.10.3.3, Pg. 8.10-19  Sec.8.12.6, pg. 12-13	No	Provide a discussion on the approximate number of trucks transporting hazardous material during construction period.
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	AFC Sec.8.10.1  Pgs. 8.10-1,2,3,5,6	No	Provide matrix or table of regional, state, etc. ordinances along with a reference to the discussion of how the project will be in conformance with each law, or standard during construction, and operational phase.

## DATA ADEQUACY WORKSHEET

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Revision 0 Date January 15, 1999

Technical Area: Traffic and Transportation Project: Sunrise Cogeneration and Power Project Technical Staff: David Flores  
 Project Kristina Bergquist Docket 98-AFC-4 Technical

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 Sec. 8.10.5, Pg. 8-10-21  Sec. 10, Table 10.1, pg. 10-15, 16	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).		No	Provide discussion of the conformity of the project.
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 Sec. 8.10.5, Pg. 8.10-21	Yes	

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Revision 0 Date January 15, 1999

Technical Area: Traffic and Transportation Project: Sunrise Cogeneration and Power Project Technical Staff: David Flores  
 Project Kristina Bergquist Docket 98-AFC-4 Technical

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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.	Sec. 10, Table 10.1, pg.10-15,16	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15 1999

Technical Area: TRANSMISSION SYSTEM (& Project: Sunrise Cogeneration  
 Project Kristina Bergquist Docket 98-AFC-4

Technical Staff: M. Hesters/ O.  
 Technical A. McCuen/ C. Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2) (A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	Section 6.1.2, pages 6-3 through 6-20	Yes	
Appendix B (i) (2) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.			Not Applicable

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: TRANSMISSION SYSTEM (& Project: Sunrise Cogeneration Technical Staff: M. Hesters/ O.  
 Project Kristina Bergquist Docket 98-AFC-4 Technical A. McCuen/ C. Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as powerlines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and	Section 6.1, pages 6-1 through 6-20  Appendix A, all	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: TRANSMISSION SYSTEM (& Project: Sunrise Cogeneration

Technical Staff: M. Hesters/ O.

Project Kristina Bergquist Docket 98-AFC-4

Technical A. McCuen/ C. Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.	Section 6.1.2, pages 6-3 through 6-20 and 6-31 through 6-50	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 6.2, page 6-26	No	Provide a description of the expected indirect and cumulative impacts due to the electrical effects of the proposed transmission line.

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Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: TRANSMISSION SYSTEM (& Project: Sunrise Cogeneration

Technical Staff: M. Hesters/ O.

Project Kristina Bergquist Docket 98-AFC-4

Technical A. McCuen/ C. Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 6.1.1, pages 6-1 through 6-3	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.	Sections 6.2.3 and 6.2.4, pages 6-29 to 6-37	Yes	

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Revision 0 Date January 15, 1999

Technical Area: TRANSMISSION SYSTEM (& Project: Sunrise Cogeneration Technical Staff: M. Hesters/ O.  
 Project Kristina Bergquist Docket 98-AFC-4 Technical A. McCuen/ C. Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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 6.2.1.1, page 6-26; Section 6.2.3, pages 6-29 to 33	No	Identify mitigation measures which will be used to reduce the possibility of shock hazards along the transmission line route.
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 6.1.4.1, pages 6-23 through 6-25  Section 6.2.7, pages 6-38 to 40	Yes	

## DATA ADEQUACY WORKSHEET

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Revision 0 Date January 15, 1999

Technical Area: TRANSMISSION SYSTEM (& Project: Sunrise Cogeneration

Technical Staff: M. Hesters/ O.

Project Kristina Bergquist Docket 98-AFC-4

Technical A. McCuen/ C. Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 6-4, page 6-25.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 6.1.4, page 6-22 Sections 6.2.2 and 6.2.3, pages 6-29 to 6-33 Section 6.2.6, page 6-38	No	Discuss how the project will conform with the LORS requiring the reduction of shock hazards along the transmission line route.
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 6-4, page 6-25	No	Amend Table 6-4 to include the name, title, phone number and address of an official within each agency who will serve as a contact person for the agency.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   0   Date   January 15, 1999  

Technical Area:   TRANSMISSION SYSTEM (&   Project:   Sunrise Cogeneration   Technical Staff:   M. Hesters/ O.    
 Project   Kristina Bergquist   Docket   98-AFC-4   Technical   A. McCuen/ C. Tooker  

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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.	NA		

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision   2   Date   January 15, 1999  

Technical Area:   Visual Resources  

Project:   Sunrise  

Technical Staff:   Gary Walker  

Project:   Kristina Bergquist  

Docket:   98-AFC-4  

Technical:   Dale Edwards  

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 8.11.2 through 8.11.5; pp.8.11-3 through 8.11-25.	NO	Please provide a discussion of cumulative visual impacts. (The AFC discussed <u>growth-inducing</u> impacts under the heading for cumulative impacts).
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:		NO	See below.

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Technical: Dale Edwards

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Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 of the areas from which the project may be seen, identification of the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(E);	Figure 8.11-1.	NO	The AFC provided a map at a scale of 1:100,000. Please provide topographic maps at a scale of 1:24,000 of the areas from which the project may be seen. Please also identify the view areas most sensitive to the potential visual impacts of the project.
Appendix B (g) (6) (A) (ii)	Elevations of any existing structures on the site; and	Not applicable; see Section 8.11.2.2, p.8.11-28.	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.	Section 8.11.2, pp.8.33-3 through 8.11-19.	YES	

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Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that will be impacted by the proposed project.	Section 8.11.2.3, p.8.11-19.	NO	The <u>methodology</u> that the AFC says was used for the visual assessment includes determining visual quality, and specifies the factors to be used in determining visual quality. However, the <u>analysis</u> includes only an assessment of the factors, and does not make an assessment of the resultant visual quality. Please provide an assessment of the visual quality of the areas that will be impacted by the proposed project.

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Technical Area: Visual Resources  
Project: Kristina Bergquist

Project: Sunrise  
Docket: 98-AFC-4

Technical Staff: Gary Walker  
Technical: Dale Edwards

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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.	Not specified.	NO	Please discuss whether residences on the northern edge of the Wallace Center / Ford City / Taft urban area constitute a visually sensitive area that may be affected by the proposed transmission line. If so, please estimate the number of residences with a view of the transmission line.
Appendix B (g) (6) (D)	A description of the dimensions, color, and material of each major visible component of the project.	Section 8.11.3.2, pp.8.11-22 and 8.11-23.	NO	Please specify the diameter of the proposed transmission line poles. Please specify the proposed color(s) of the power plant and the transmission line poles.

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Appendix B (g) (6) (E)	Full-page color photographic reproductions of the existing site, and full-page color simulations of the proposed project in the existing setting from each location representative of the view areas most sensitive to the potential visual impacts of the project.	Figures 8.11-5 through 8.11-14.	NO	1. Please provide full-page color photographic reproductions of the existing views of a) the proposed power plant site from State Route 33, b) the transmission line route crossing State Route 33, and c) the transmission line route crossing State Route 119. 2. Please provide full-page color simulations of a) the proposed power plant from State Route 33, b) the proposed transmission line crossing State Route 33, and c) the proposed transmission line crossing State Route 119.
Appendix B (g) (6) (F)	An assessment of the visual impacts of the project, including light and glare, and visible plumes.	Section 8.11.3.2, pp.8.11-21 through 8.11-24.	NO	Please provide an assessment of the visual impacts of light and glare due to the proposed project.

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 10.0, Table 10-1, p.10-16.	NO	Please revise Table 10-1 to explicitly reference pages in the application wherein conformance with each law or standard is discussed.
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 10.0, Table 10-1, p.10-16.	YES	

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 8.11-1, pp.8.11-1 through 8.11-2.	NO	The AFC states that the Federal Land Policy Management Act of 1976 (FLPMA) may be applicable to the proposed project. Please discuss the conformity of the proposed project with that law in regard to visual resources.
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.	Not provided.	NO	Please provide the name, title, phone number, and address of 1) the official within the U.S. Bureau of Land Management who will serve as the contact person for the agency in regard to visual resources and 2) the official within the Kern County Planning and Development Services Department who will serve as the contact person for the agency in regard to visual resources.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

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Technical Staff: Gary Walker

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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 provided.	NO	Please provide a schedule indicating when any BLM permit that relates to visual resources will be obtained and the steps that the applicant has taken or plans to take to obtain such a permit.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15 1999

Technical Area: Waste Management

Project: Sunrise Cogeneration

Technical Staff: Mike Ringer

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Chris Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Sec. 8.13	YES	
Appendix B (e) (2)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Sec. 4.0 Sec. 8.13.6	YES	

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Revision 0 Date January 15, 1999

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Project: Sunrise Cogeneration

Technical Staff: Mike Ringer

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Chris Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sec. 8.13.1 Sec. 8.13.2 Sec. 8.13.5	YES	

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Revision 0 Date January 15, 1999

Technical Area: Waste Management Project: Sunrise Cogeneration Technical Staff: Mike Ringer  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Chris Tooker

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) (A)	A Phase I Environmental Site Assessment for the proposed power plant site using methods prescribed by the American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process" (Designation: E 1527-93, May 1993), which is incorporated by reference in its entirety; or an equivalent method agreed upon by the applicant and the CEC Staff that provides similar documentation of the potential level and extent of site contamination.	Appendix G	YES	

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Adequacy Issue: Adequat  Inadequate

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Technical Area: Waste Management Project: Sunrise Cogeneration Technical Staff: Mike Ringer  
 Project: Kristina Bergquist Docket: 98-AFC-4 Technical: Chris Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (12) (B)	A description of each waste stream estimated to be generated during project construction and operation, including origin, hazardous or nonhazardous classification pursuant to Title 22, California Code of Regulations, § 66261.20 et seq., chemical composition, estimated annual weight or volume generated, and estimated frequency of generation.	Sec. 8.13.2.1 Sec. 8.13.2.2	YES	

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Technical Staff: Mike Ringer

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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.	Sec. 8.13.3.1 Sec. 8.13.3.2	YES	
Appendix B (g) (12) (D)	A description of management methods for each waste stream, including methods used to minimize waste generation, length of on- and off-site waste storage, re-use and recycling opportunities, waste treatment methods used, and use of contractors for treatment.	Sec. 8.13.3.1 Sec. 8.13.3.2	YES	

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 10-1	NO	Provide references in Table 10-1 where conformance is discussed.
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 10-1	YES	

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Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Table 10-1	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.	Table 8.13-4	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Sec. 8.13.11	YES	

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Revision 2 Date January 15, 1999

Technical Area: Water Resources

Project: Sunrise Cogeneration and Power

Technical Staff: Joe O'Hagan

Project: Kristina Bergquist

Docket: 98-ARC-4

Technical: Dr. Jim Brownell

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Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 1-4, 2-3, 2-16 to 2-22, 8.13-1; Sections 1.6.1, 2.2, 2.2.6 to 2.2.7.1, 8.13-1	No	Refer to cumulative impact discussion in project overview. Identify the anticipated capacity and depth of the two deep injection wells to be used for start-up steam, a description of the waste stream characteristics, a description of other anticipated uses, a description of the receiving strata, a description of any testing necessary for permitting, and anticipated timeline for permit application and approval.
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	-	

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Project: Sunrise Cogeneration and Power  
Docket: 98-ARC-4

Technical Staff: Joe O'Hagan  
Technical: Dr. Jim Brownell

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Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	Page 8.14-20; Table 8.14-3	No	Table 8.14-20 should reflect requirement for General Permit for Discharges of Stormwater Associated with Industrial Activities.
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:	Pages 8.14-2 to 8.14-7; Figure 8.14.1	Yes	
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Page 8.14-6, 8.14-17; Section 8.14.1.1, 8.14.2	No	Provide groundwater quality data for evaluation of injection wells impacts.
Appendix B (g) (14) (B) (ii)	Surface water bodies; and	Pages 8.14-2, 8.14-7; Section 8.14.1.1; Figure 8.14-1	Yes	

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Project: Kristina Bergquist

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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.	Pages 2-33, 2-37, 8.14-7, 8.14-12 to 8.14-13; Sections 2.2.13.9, 2.3.1, 8.14.1.1, 8.14.2; Figure 2-7.	Yes	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	--	--	
Appendix B (g) (14) (C) (i)	Source 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;	Pages 2-16, 8.14-5, 8.14-8; Sections 2.2.6.2, 8.14.1.1, 8.14.2	Yes	
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	Pages 2-16 to 2-19, 8.13-8, 8.14-10; Tables 8.14-2 and 8.13-2; Section 2.2.6.2.2	Yes	

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Technical: Dr. Jim Brownell

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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	Pages 8.2-3, 8.13-7, 8.14-9 to 8.14-10; Sections 8.2.2.1, 8.13.2.2, 8.14.2	Yes	
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.	Pages 1-15 to 1-16, 2-2, 2-15, 2-17, 8.13-7, 8.14-10, 8.14-16; Sections 1.6.7, 1.6.9, 2.1.1, 2.2.5, 2.2.6, 8.14.2; Figures 2-2, 2-5, 8.13-1, 8.14-2	No	See information requested above for Appendix B (g)(1).
Appendix B (g) (14) (D)	A description of pre-, and post-construction runoff and drainage patterns, including:	Pages 2-31, 8.14-7, 8.14-12, 8.14-16; Appendix I, 1-8; Sections 2.2.13.7, 8.14.11, 8.14.2	No	Provide information regarding post-construction drainage patterns.

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	Pages 8.14-1 to 5; Section 8.14.1.1; Figure 8.14-1	Yes	
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	Pages 2-31, 2-33; Sections 2.2.13.7, 2.2.13.9; Figure 2-7	Yes	
Appendix B (g) (14) (E)	An assessment of the effects of the proposed project on water resources. This discussion shall include:	--	--	--
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source;	Pages 1-27, 8.14-5, 8.14-8 to 8.14-11; Section 1.9.14, 8.14.1.1, 8.14.2	Yes	
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	Page 8.14-12 (8.14.2)	No	See information requested above for Appendix B (g)(1).

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Technical Area: Water Resources Project: Sunrise Cogeneration and Power Technical Staff: Joe O'Hagan  
 Project: Kristina Bergquist Docket: 98-ARC-4 Technical: Dr. Jim Brownell

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Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	Pages 2-33, 2-37, 8.14-13, 8.14-17; Sections 2.3.1, 2.2.13.9, 8.14.2; Figure 8.14-3	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Page 8.14-18; Section 8.14.4.1	No	Provide reference to pages in the AFC which demonstrate compliance with the applicable LORS.

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Docket: 98-ARC-4

Technical Staff: Joe O'Hagan  
Technical: Dr. Jim Brownell

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Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Page 8.14-24; Section 8.14.5	No	Add to the table the California Department of Fish and Game for Streambed Alteration Permits and the California Department of Conservation, Division of Oil and Gas for the two deep injection wells.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 8.14-18; Section 8.14.4.1	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.	Page 8.14-24; Section 8.14.6	No	Add contacts for the California Department of Fish and Game and the California Department of Conservation,

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 Project: Kristina Bergquist Docket: 98-ARC-4 Technical: Dr. Jim Brownell

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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	Provide a time line indicating when Division of Oil and Gas, West Kern Water District , Kern County and General NPDES permits, will be obtained.

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat   X   Inadequate       

Revision   0   Date   January 15, 1999  

Technical Area:   Worker Safety  

Project:   Sunrise Cogen & Power Co.  

Technical Staff:   Ellie Townsend-Smith  

Project:   Kristina Bergquist  

Docket:   98-AFC-4  

Technical:   Chris Tooker  

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 1.6.1  Section 1.9.7, pp. 1-23 & 24  Section 1.9.12, p. 1-26	Yes	
Appendix B (g) (11) (A)	A description of the safety training programs which will be required for construction and operation personnel.	Section 8.7.4.1  Table 8.7-5  Section 8.7.4.2  Table 8.7-6	Yes	
Appendix B (g) (11) (B)	A complete description of the fuel handling system and the fire suppression system.	Section 2.2.2  Section 1.6.5  Section 8.7.3.2	Yes	

## DATA ADEQUACY WORKSHEET

Adequacy Issue: Adequat  Inadequate

Revision 0 Date January 15, 1999

Technical Area: Worker Safety

Project: Sunrise Cogen & Power Co.

Technical Staff: Ellie Townsend-Smith

Project: Kristina Bergquist

Docket: 98-AFC-4

Technical: Chris Tooker

SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (11) (C)	<p>Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows:</p> <p style="padding-left: 40px;">Construction Health and Safety Program:</p> <p style="padding-left: 80px;">* Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509);</p> <p style="padding-left: 80px;">* Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920);</p> <p style="padding-left: 80px;">* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522).</p> <p style="padding-left: 40px;">Operation Health and Safety Program:</p>	<p>Section 8.7</p> <p>8.7.3.1</p> <p>Table 8.7-2, p. 8.7-7 to 8.7-10</p> <p>p. 8.7-10 – 8.7-13</p> <p>Table 8.7-3, p. 8.7-11</p> <p>pg. 8.7.3.2</p> <p>Table 8.7-3, p. 8.7-11</p> <p>p. 8.7-15 B-139</p> <p>p. 8.7-16</p>	Yes	

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Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 8.7, Table 8.7-1	No	Refer to specific sub-section where conformance is discussed.
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 8.7.2, Table 8.7-1	Yes	

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SITING REGULATION S	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUAT E 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 8.7.2, Table 8.7-1	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 8.7.8	Yes	Asst. Fire Marshall Chuck Dickson, Kern County Fire Dept., 5642 Victors St., Bakersfield, CA 93308 (805) 391-7088
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 8.7.6 & 8.7.7	Yes	