

# Memorandum

**Date :** September 20, 2002

**Telephone:** (916) 653-1227

**File:** Salton Sea Geothermal

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

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

**Subject :** **SALTON SEA GEOTHERMAL POWER (02-AFC-02):  
DATA ADEQUACY RECOMMENDATION**

On July 29, 2002, CE Obsidian Energy LLC (an affiliate of CalEnergy Operating Corp.) filed an Application for Certification (AFC) seeking approval from the California Energy Commission to construct and operate the Salton Sea Unit 6 Geothermal Power Project in Imperial County. The proposed project is a 185 MW geothermal electric generation facility. The applicant initially requested review under the expedited six-month process (Cal. Code of Regs., tit. 20, §§2021-2031). On August 28, 2002 deficiencies were found in eleven technical areas for the 12-month process and in 8 technical areas for the 6-month expedited process.

The applicant has since provided supplemental information, and has resolved the inadequacies for the 12-month review process. In a letter dated September 18, 2002, the applicant has requested review of the Salton Sea Project as a 12-month AFC. Based on staff's analysis, the AFC and supplement now meet the requirements of the Energy Commission's siting regulations for the 12-month AFC review process (Cal. Code of Regs., tit. 20, §1704, Appendix B). Attachment A contains a revised overview of the technical disciplines evaluated, and Attachment B contains staff's revised detailed data adequacy worksheets of those disciplines that are now data adequate.

At the September 25, 2002, Business Meeting, I will recommend that the Energy Commission find the AFC adequate for the 12-month process and assign a committee for the project.

A geothermal project is exempt from the Notice of Intention proceedings if the applicant can demonstrate at the outset of the proceedings that the site is capable of providing geothermal resources in commercial quantities (Pub. Resources Code, §25540.2(a)). CE Obsidian Energy has also requested this exemption, and has provided information in the AFC on the availability of geothermal resources at the site. The committee assigned to this project should hold a public hearing as soon as possible, and no later than the informational hearing, after acceptance of the application as data adequate to determine if the applicant has reasonably demonstrated the capability of the site to produce commercial quantities of steam.

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Steve Larson  
Executive Director

Attachments

# ATTACHMENT A

## OVERVIEW OF ENERGY COMMISSION STAFF'S DATA ADEQUACY DETERMINATION Salton Sea Unit 6 Geothermal Power Project (02-AFC-02)

Technical Area	Data Adequacy	
	12-Mo.	Page No.
BIOLOGICAL RESOURCES	Yes	1
CULTURAL RESOURCES	Yes	6
LAND USE	Yes	9
PROJECT OVERVIEW	Yes	13
RELIABILITY	Yes	17
SOCIOECONOMICS/ ENVIRONMENTAL JUSTICE	Yes	19
SOIL RESOURCES	Yes	26
TRAFFIC AND TRANSPORTATION	Yes	29
TRANSMISSION SYSTEM ENGINEERING	Yes	33
VISUAL RESOURCES	Yes	37
WATER RESOURCES	Yes	40

## **ATTACHMENT B**

### **ENERGY COMMISSION STAFF'S List of Revised Data Adequacy Sheets**

**SALTON SEA GEOTHERMAL POWER PROJECT  
02-AFC-02**

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 01 Date September 18, 2002

Technical Area: Biological Resources

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Natasha Nelson

Project Manager: Robert Worl

Docket: 02-AFC-2

Technical Senior: Jim Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	<p>Site conditions: Section 5.5.1, pp. 5.5-2 to -17</p> <p>Impacts discussion: Section 5.5.2, pp.5.5-17 to -23; Section 5.5.3, p. 5.5-23; Table 5.5-1D, p. 5.5-43; Table 5.5-1E, p. 5.5-44;and Appendix K</p> <p>Mitigation and Monitoring: Sections 5.5.4 and 5.5.5, pp. 5.5-23 to -31; and Figure 5.5-3</p>	Yes	
Appendix B (g) (13) (A)	A regional overview and discussion of biological resources, with particular attention to sensitive biological resources near the project, and a map at a scale of 1:100,000 (or some other suitable scale) showing their location in relation to the project.	<p>Regional overview: Section 5.5.1.4, p. 5.5-17</p> <p>1:100,000 (or suitable scale) map: Figures 5.8-1A and 5.8-1B</p>	Yes	

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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.	Detailed map and discussion: Section 5.5.1, pp. 5.5-2 to -17; Figures 5.5-1A to 5.5-1E; Figure 5.5-2; and Photos 1 to 13, pp. 5.5-51 to -57  Lists of species seen and those expected to occur in the project area: Tables 5.5-1B and 5.5-1C, pp. 5.5-41 to -42; and Appendix K  Discussion of distribution: Section 5.5.1, pp. 5.5-2 to -17	Yes	
Appendix B (g) (13) (C)	A description of all studies and surveys used to provide biological information about the project site, including seasonal surveys and copies of the California Department of Fish and Game's Natural Diversity Data Base Survey Forms, "California Native Species Field Survey Forms", and "California Natural Community Field Survey Forms", completed by the applicant. Include the dates and duration of the studies, methods used to complete the studies, and the names and qualifications of individuals conducting the studies.	Study description: Section 5.5.1.1, p. 5.5-2; Sections 5.5.1.2.3 and 5.5.1.2.4, pp.5.5-13 to -14; and Table 5.5-1A, pp. 5.5-39 and -40  CNDDDB forms: Appendix K <sub>1</sub> and <u>Data Adequacy Comment BIO-2</u>  Names/qualifications of those completing studies: Table 5.5-1A, p. 5.5-40	<del>No</del> Yes	<del>Provide the CNDDDB records from the initial sensitive species search.</del>

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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.	<p>Permanent/temporary impacts discussion: Section 5.5.2, p. 5.5-17 to -23; Tables 5.5-1D and 5.5-1E, pp. 5.5-43 and -44; and Appendix K</p> <p>Use and discharge of water: <del>Not provided</del> <u>Data Adequacy Comment BIO-3</u></p> <p>Cooling tower drift study: Section 5.1.2.3.1, p. 5.1-16; Table 5.1-25, p. 5.1-77; and Section 5.5.2.1, pp. 5.5-19 and -20</p> <p>Once-through cooling discussion: Not Applicable</p>	<del>No</del> <u>Yes</u>	<del>Provide a discussion of the on-site use and discharge of water as it relates to the retention ponds. Because brine and reject water from the reverse osmosis potable water system will also be discharged to uncovered ponds, provide a discussion on the potential for impacts. For any use of water during pipeline installation, please describe the use and discharge of water.</del>
Appendix B (g) (13) (E)	A discussion of the following:			
Appendix B (g) (13) (E) (i)	All measures proposed to avoid and/or reduce any adverse impacts;	Sections 5.5.4 and 5.5.5, pp. 5.5-23 to -31; Figure 5.5-3; and Appendix K	Yes	
Appendix B (g) (13) (E) (ii)	All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and	See above	Yes	
Appendix B (g) (13) (E) (iii)	Any educational programs proposed to enhance employee awareness in order to protect biological resources.	Section 5.5.4, pp. 5.5-26 to -27; and Section 5.5.5, p. 5.5-30	Yes	

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Appendix B (g) (13) (F)	A discussion of compliance and monitoring programs proposed to ensure the effectiveness of mitigation measures incorporated into the project.	Section 5.5.4, pp. 5.5-27 to -28; and Section 5.5.5, p. 5.5-30	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.	Section 5.5.1.3, p. 5.5-17	Yes	
Appendix B (g) (13) (H)	For purposes of this section, sensitive biological resources are one of the following:	--	--	--
Appendix B (g) (13) (H) (i)	Species listed under state or federal Endangered Species Acts;	Section 5.5.1.2.1, pp. 5.5-7 to -10; and Tables 5.5-1B and 5.5-1C, pp. 5.5-41 and -42	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	Section 5.5.1.2, pp. 5.5-7 to -12; and Tables 5.5-1B and 5.5-1C, pp. 5.5-41 and -42	Yes	
Appendix B (g) (13) (H) (iii)	Species or habitats identified by legislative acts as requiring protection.	See above	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 5.5-2, pp. 5.5-45 to -49	Yes	

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Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 5.5-2, pp. 5.5-45 to -49	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.5.6, pp. 5.5-31 to -35; Table 5.5-2, pp. 5.5-45 to -49	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 5.5-3, p. 5.5-50	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.5.6.4, pp. 5.5-34 and -35; and <u>Data Adequacy Comment BIO-4</u>	<del>No</del> <u>Yes</u>	<del>Provide the status of all permits and approvals identified within Section 5.5.6.4 and for all outstanding permits or approvals provide the expected timeframe.</del>

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## DATA ADEQUACY WORKSHEET

Revision No. 01 Date ~~8/7/02~~ 9/19/02

Technical Area: Cultural Resources  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-2

Technical Staff: Gary Reinoehl  
 Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	AFC Section 5.6.1, 5.6.1.1.1, 5.6.1.8.1, 5.6.1.8.2, 5.6.1.8.3, 5.6.2, 5.6.3, and 5.6.4	Yes	
Appendix B (g) (2) (A)	A brief summary of the ethnology, prehistory, and history of the region in which the project site and related facilities are located and maps at a scale of 1:24,000, indicating areas of ethnographic occupation. The region may vary depending on the extent of the territory occupied or used by prehistoric cultures indigenous to the area in which the project is located.	Sections 5.6.1.2, 5.6.1.3 and 5.6.1.4 Figure 5.6-1	Yes	
Appendix B (g) (2) (B)	A description of all literature searches and field surveys used to provide information about known cultural resources in the project vicinity. If survey records of the area potentially physically affected by the project are not available, and the area has the potential for containing significant cultural resources, the applicant shall submit a new or revised survey for any portion of the area lacking comprehensive survey data. A discussion of the dates of the surveys, methods used in completing the surveys, and the identification and qualification of the individuals conducting the surveys shall be included.	Section 5.6.1.6, 5.6.1.7 and 5.6.1.8  <u>Confidential Archaeological Report and attached map docketed 9/16/02</u>	<del>No</del> <u>Yes</u>	<del>Please provide a cultural resources survey for the project in ARMR format, including a map that depicts the relationship between the project components and the identified cultural (archeological and built) resources (submit under confidential cover).</del>

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Appendix B (g) (2) (C)	A discussion of the sensitivity of the project area described in subsection (g)(2)(A) and the presence and significance of any known archeological sites and other cultural resources that may be affected by the project. Information on the specific location of archeological resources shall be included in a separate appendix to the application and submitted to the Commission under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq.	Section 5.6.1.8 Appendix H including (Confidential submittal)	Yes	
Appendix B (g) (2) (D)	A summary of contacts and communications with, and responses from, Native American representatives who may have an interest in heritage lands and/or resources potentially affected by the proposed project.	Section 5.6.1.5 Appendix H (Confidential submittal)	Yes	
Appendix B (g) (2) (E)	In the discussion on mitigation and monitoring prepared pursuant to subsection (g)(1), a discussion of any educational programs proposed to enhance awareness of potential impacts to archeological resources by employees and contractors, measures proposed for mitigation of impacts to known cultural resources, and a set of contingency measures for mitigation of potential impacts to previously unknown cultural resources.	Section 5.6.4.1 and 5.6.4.2	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 5.6.5.1, 5.6.5.2, 5.6.5.3, 5.6.5.4, and 5.6.5.5 Table 5.6-4	Yes	

Adequacy Issue: Adequate  Inadequate

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Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 5.5.3, 5.6.5.4 and 5.6.5.5  Table 5.6-4  <u>Info Submitted 9/18/02</u>	<del>No</del> <u>Yes</u>	<del>Please indicate if a permit from a state or federal agency is needed construct transmission lines over a state highway.</del>  <del>If a permit is needed, please specify which agency.</del>
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.6.2, 5.6.3, 5.6.4, and 5.6.5	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 5.6.5.4  Table 5.6-5  <u>Info Submitted 9/18/02</u>	<del>No</del> <u>Yes</u>	<del>If a permit is needed from a state or federal agency to cross a state highway with transmission lines, please provide the name, title, phone number, and address of the agency's contact.</del>
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.6.5.5	Yes	

Adequacy Issue: Adequate  Inadequate

### DATA ADEQUACY WORKSHEET

Revision No. 1 Date 08/01/02 09/18/02

Technical Area: Land Use

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: David Flores

Project Manager: Robert Worl

Docket: 02-AFC-2

Technical Senior: Eileen Allen

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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.	AFC pg.5.8-1 through 6 Section 5.8.1 AFC pg.5.8-6 through 13 Sec. 5.8.2 AFC pg. 5.8-13 Sec. 5.8.4 <u>Response to CEC data adequacy comments dated 9/18/02</u> <u>Pg.LU-2</u>	<del>NO</del> <u>YES</u>	<del>Provide mitigation plan for loss of prime agricultural land. See item B (g) (3) (B) for further discussion.</del>
Appendix B (g) (3) (A)	A discussion of existing land uses and current zoning at the site, land uses and land use patterns within one mile of the proposed site and within one-quarter mile of any project-related linear facilities. Include:	AFC pg. 5.18-1&2 Sec. 5.8.1.1 AFC pg. 5.8-4 through 5.8-6 Sec. 5.8.1.3 through 5.8.1.5	YES	
Appendix B (g) (3) (A) (i)	An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;	AFC pg. 5.8-2 through 6 Sec. 5.8.1.1,2,3 & 5 Figures 5.8-3A through E	YES	
Appendix B (g) (3) (A) (ii)	A discussion of any trends in recent zoning changes and potential future land use development;	AFC pg. 5.8-6 Sec. 5.8.1.6	YES	
Appendix B (g) (3) (A) (iii)	Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and	AFC pg. 5.8-25 through 29 Table 5.8-3	YES	
Appendix B (g) (3) (A) iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Figures 5.8-1A, 5.8-3A through E Figures 5.8-4 & 5.8-5	YES	

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Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed facilities with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agency. The discussion shall identify the need, if any, for variances or any measures that would be necessary to make the proposal conform with permitted land uses	AFC pg.5.8-1, Sec. 5.8.1 AFC pg. 5.8-2 through 14 Sec. 5.8.1.1.2 AFC pg. 5.8-6 through 12 Sec. 5.8.2 AFC pg.5.8-13 Sec. 5.8.4 AFC pg. 5.8-14 through 5.8-21, Sec. 5.8.5 Response to CEC data adequacy comments dated 9/18/02 Pg.LU-2	<del>YES</del> NO	<del>The AFC (Sec. 5.8.1.1.2 &amp; 5.3.1.4) indicates that the project site is zoned Heavy Agriculture, with a Geothermal Overlay and is irrigated prime farmland. Under CEQA, the applicant is required to mitigate for the permanent loss of prime agricultural land. Please provide a discussion and mitigation plan for the removal of 80 acres from active agricultural use to a non-agricultural use.</del>
Appendix B (g) (15) (B)	A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:	AFC pg. 5.3-1 through 14 Figures 5.3-1 A-E 5.3-2A-E, 5.3.3	YES	
Appendix B (g) (15) (B) (i)	Crop types, irrigation systems, and any special cultivation practices; and	AFC pg.5.3-1 through 14 Sec. 5.3	YES	
Appendix B (g) (15) (B) (ii)	Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the Natural Resource Conservation Service of the California Department of Conservation.	AFC pg.5.3-1 through 14 Sec. 5.3 Figures 5.3-1 Figures 5.3-2A -E	YES	
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This decision shall include:	AFC pg.5.3-1 through 14 Sec. 5.3	YES	
Appendix B (g) (15) (C) (ii)	Direct and indirect effects on agricultural land uses; and	AFC pg.5.3-1 through 14 Sec. 5.3	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.	AFC pg. 5.8-30 through 33 Table 5.8-4 Table 5.8-5	YES	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	AFC pg. 5.8-14 through 22 Sec. 5.8.5.1, 5.8.5.2, 5.8.5.3, 5.8.5.4.1, and 5.8.5.4.2	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.	AFC pg. 5.8-33 Table 5.8-5	YES	

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 Docket: 02-AFC-2

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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.	AFC pg. 5.8-14 through 21 Sec. 5.8.5  Response to CEC data adequacy comments dated <u>9/9/02</u>  <u>Page LU-3 &amp; 4</u>	<del>NO</del> <u>YES</u>	<del>Warren Alquist Section 25120 defines 'thermal' in a manner that excludes wells, pads, and pipelines for geothermal resource from our permits.</del>  <del>P.R.C. §25120 states: "Exploratory, development and production wells, resource transmission lines, and other related facilities used in connection with geothermal...field development project are not appurtenant facilities for the purposes of this division." Please summarize agency, and county, permits required for the wells, pads, and pipelines associated with the project, the status of each, with bench marks, showing that requirements will be met within the review process time frame.</del>

Adequacy Issue: Adequate  Inadequate

# DATA ADEQUACY WORKSHEET

Revision No. 01 Date ~~August 8~~ September 11, 2002

Technical Area: Project Overview  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-02

Technical Staff: Robert Worl  
 Technical Senior: Kevin M. Kennedy

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.	§§5.1 through 5.16, and Entire AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Entire AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference	End References in each Chapter; Entire AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	Entire AFC; and § 8.0	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.	§3.3 §§3.2.1, 3.2, 3.3.2.2 Brine/Steam Handling	Yes	
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessors parcel numbers.	§3.3.1.2, Figs 3.3-2 A-E	Yes	
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	§§ 3.2.1, 3.3.1; Figs 3.1-1,2,4 and 3.2-1	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.	Figure 3.3-6	Yes	

Adequacy Issue: Adequate  Inadequate

### DATA ADEQUACY WORKSHEET

Revision No. 01 Date ~~August 8~~ September 11, 2002

Technical Area: Project Overview  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-02

Technical Staff: Robert Worl  
 Technical Senior: Kevin M. Kennedy

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	Appendix M	Yes	
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	§ 3.4	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.	§ 2.1, 3.2.1, 3.2.2 Figure 3.2-2	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	§3.3.6	Yes	
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	§3.3.1.2; Supplement pps. PO-1 to PO-3	No <u>Yes</u>	<del>Please explain the business/lease arrangement between Sinclair, Magma, and CEOC.</del>
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Figures 3.3-1 A through E	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;	Figures 3.3-3A, and 3.3-3B	Yes	

Adequacy Issue: Adequate  Inadequate

### DATA ADEQUACY WORKSHEET

Revision No. 01 Date ~~August 8~~ September 11, 2002

Technical Area: Project Overview  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-02

Technical Staff: Robert Worl  
 Technical Senior: Kevin M. Kennedy

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	§§ 3.4, and 3.5 No fossil fuels; § 3.3.2.2 describes the brine/steam handling system	Yes	
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s).	Figures 5.8.3A though 5.8.3E	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.	Figures 5.12-10A and B	Yes	
Appendix B (c)	In a section entitled, "Demand Conformance" provide a discussion explaining how the proposed project conforms with the requirements of Public Resources Code § 25524 or Public Resources Code § 25540.6(a)(5). If the provisions of Public Resources Code § 25523.5 are applicable, explain how the project conforms with the requirements of this section. Additional data adequacy requirements may be contained in the Electricity Report applicable pursuant to Title 20, California Code of Regulations, § 1720.5.	§ 2.0 Discussion	N/A	N/A
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	

Adequacy Issue: Adequate  Inadequate

### DATA ADEQUACY WORKSHEET

Revision No. 01 Date ~~August 8~~ September 11, 2002

Technical Area: Project Overview  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-02

Technical Staff: Robert Worl  
 Technical Senior: Kevin M. Kennedy

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 discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	§ 3.6	Yes	

Adequacy Issue: Adequate  Inadequate

## DATA ADEQUACY WORKSHEET

Revision No. 01 Date August 7, September 10, 2002

Technical Area: Reliability  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-2

Technical Staff: Shahab Khoshmashrab  
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.2.1, 3.3.2.2.2, 3.3.2.2.5, 3.3.3, 3.3.4.2 through 3.3.4.5, 3.3.4.7, 4.1, 4.1.1, 4.2, 4.2.6, 4.3, 4.3.1, 5.2.1, 5.2.1.4, 5.2.4, 5.4.1.1, 5.4.1.3, 5.4.4.1, 5.13  Appendices A through E	Yes	
Appendix B (i) (3) (A)	A discussion of the sources and availability of the fuel or fuels to be used over the estimated service life of the facilities.	§§ 1.2.1, 4.2.6	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;	§ 4.1	Yes	
Appendix B (i) (3) (B) (ii)	The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system;	§§ 3.3.2.2.2, 3.3.2.2.5, 3.3.3, 3.3.4.2 through 3.3.4.5, 3.3.4.7, 4.1, 4.2, 4.3, 5.2.4, 5.13	Yes	
Appendix B (i) (3) (B) (iii)	Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability;	§§ 3.3.4.2, 4.1.1, 4.2.6, 4.3.1, 5.2.1, 5.2.1.4, 5.4.1.1, 5.4.1.3, 5.4.4.1	Yes	
Appendix B (i) (3) (B) (iv)	Special design features adopted by the applicant or resource supplier to ensure power plant reliability; and	§ 4.3  Appendices A through E	Yes	

Adequacy Issue: Adequate  Inadequate

## DATA ADEQUACY WORKSHEET

Revision No. 01 Date August 7 September 10, 2002

Technical Area: Reliability  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-2

Technical Staff: Shahab Khoshmashrab  
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (3) (B) (v)	The expected power plant maturation period.	<del>Not found</del> Draft Data Adequacy Response REL-68	<del>No</del> Yes	<del>Please describe the maturation period. For mature technologies, this may amount to the startup period.</del>
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	N/A	N/A	
Appendix B (h) (1) (B)	Tables which identify- each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	N/A	N/A	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	N/A	N/A	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	N/A	N/A	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate  Inadequate

# DATA ADEQUACY WORKSHEET

Revision No. 01 Date 8/19/2002  
9/16/2002

Technical Area: Socioeconomics

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 02-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
<p>Appendix B (g) (1)</p>	<p>...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.</p>	<p>AFC, Vol. I 5.9.1 Affected Environment, pages 5.9-1 to 5.9-6.            5.9.2 Environmental Consequences, pages 5.9-7 to 5.9-11.            5.9.3 Cumulative Impacts, page 5.9-11.            5.9.4 Mitigation Measures, page 5.9-11.            Table 5.9-1 Population Of The Study Area, page 5.9-14.            Table 5.9-2 Employment By Industry Group Imperial County, page 5.9-14.            Table 5.9-3 Employment Growth By Occupation Imperial County, page 5.9-15.            Table 5.9-4 Employment Data In The Study Area (Annual Average), page 5.9-15.            Table 5.9-5 Housing In Communities Potentially Affected By The Project (1998), page 5.9-16.  <u>SSU6 Power Project (02-AFC-02) Response To CEC Data Adequacy Comments,</u></p>	<p><del>No</del>  <u>Yes</u></p>	<p><del>Please estimate the secondary (indirect and induced) income and employment economic impacts for construction and operation of the power plant. Show the income and employment multipliers e.g., Type I, Type II, or Type III as appropriate and how they are calculated. Delineate and explain the rationale for the region used in the economic impact estimates. To the extent possible for these and all economic estimates, indicate the year all economic estimates were made.</del></p> <p><del>Please estimate the cumulative impacts by discussing the projects, workforce numbers and dates of construction and operation. Also, indicate if any major projects are planned near the power plant, associated pipelines (e.g. water) or electrical transmission lines.</del></p>

Adequacy Issue: Adequate  Inadequate

# DATA ADEQUACY WORKSHEET

Revision No. 01 Date ~~8/19/2002~~  
9/16/2002

Technical Area: Socioeconomics

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 02-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		<u>September 13, 2002, pages SOC-1 through 4.</u>		
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;	5.8.1.3 Employment and Economy, pages 5.9-2 to 5.9-3. Table 5.9-2 Employment By Industry Group Imperial County, page 5.9-14. Table 5.9-3 Employment Growth By Occupation Imperial County, page 5.9-15. Table 5.9-4 Employment Data In The Study Area (Annual Average), page 5.9-15. 5.9.1.7 Local Government Finance, pages 5.9-5 to 5.9-6. Table 5.9-6a Imperial County General Fund Revenues For 2000-2001, page 5.9-16. Table 5.9-6b Imperial County General Fund Expenditures For 2000-2001, page 5.9-17.	<del>No</del> <u>Yes</u>	<del>Please provide an estimate of projected revenue.</del>

Adequacy Issue: Adequate  Inadequate

# DATA ADEQUACY WORKSHEET

Revision No.

01

Date

8/19/2002

9/16/2002

Technical Area: Socioeconomics

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 02-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		<u>SSU6 Power Project (02-AFC-02), Response To CEC Data Adequacy Comments, September 13, 2002, Page SOC-5.</u>		
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	5.9.1.2 Population, page 5.9-2.  5.9.1.8 Environmental Justice, page 5.9-6.  Table 5.9-1 Population Of The Study Area, page 5.9-14.  Table 5.9-7 Ethnic and Racial Composition (1998) (Percent total population), page 5.9-17.  Table 5.9-8 Poverty Status And Income Of Study Area, page 5.9-18.	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	5.9.1.3.1 Existing Unemployment Rates, page 5.9-3.  5.9.1.3.2 Projected Unemployment Rates, page 5.9-3.	Yes	
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	5.9.1.3 Employment and Economy, pages 5.9-2 to 5.9-3.  Table 5.9-10 Project Labor	Yes	

Adequacy Issue: Adequate  Inadequate

# DATA ADEQUACY WORKSHEET

Revision No. 01 Date 8/19/2002  
9/16/2002

Technical Area: Socioeconomics  
 Project Manager: Mr. Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-2

Technical Staff: Dr. Joseph Diamond  
 Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		Needs And Available Labor By Craft/Skill, page 5.9-19.		
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing; and	5.9.1.4 Housing, page 5.9-3.  Table 5.9-5 Housing In Communities Potentially Affected By The Project (1998), page 5.9-16.	Yes	
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes, for the duration of the project construction schedule.	5.9.2.1.4 Utilities, page 5.9-9. 5.9.2.1.5 Water, page 5.9-9. 5.9.2.1.6 Waste. page 5-9. 5.9.2.1.7 Natural Gas, page 5.9-9. 5.9.2.1.8 Public Services, pages 5.9-9 to 5.9-10.	Yes	
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project, including:			
Appendix B (g) (7) (B) (i)	The number of workers to be employed each month by craft during construction and operation;	Table 3.4-1 Salton Sea Unit 6 Project Staffing Schedule And Construction Workforce, page 3-59.  5.9.2.1 Plant Construction and Operation, Operations, page 5.9-8.	Yes	
Appendix B (g) (7) (B) (ii)	An estimate of the number and percentage of workers who will commute daily, commute	5.9.2.1.1 Worker Availability/Commute,	Yes	

Adequacy Issue: Adequate  Inadequate

# DATA ADEQUACY WORKSHEET

Revision No. 01 Date 8/19/2002  
9/16/2002

Technical Area: Socioeconomics

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 02-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
	weekly, or relocate in order to work on the project;	pages 5.9-7 to 5.9-8.		
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Same as above.	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	5.9.2.1 Worker Availability/Commute, page 5.9-7. 5.9.1.4 Housing, page 5.9-3.	Yes	
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operation phases;	5.9.2.1.4 Utilities to 5.9.2.1.8 Public Services, pages 5.9-9 to 5.9-10.	Yes	
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	5.9.2.1.8 Public Services, School Districts, page 5.9-10.	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and an estimate of the total operation payroll;	5.9.2.1 Plant Construction and Operation, pages 5.9-7 to 5.9-8.		
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	5.9.2.1.2 Locally Purchased Materials, page 5.9-8.	<del>No</del> <u>Yes</u>	<del>Please provide an estimate of the expenditures for locally purchased materials for the construction and operation phases of the project.</del>

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 01 Date 8/19/2002  
9/16/2002

Technical Area: Socioeconomics

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Dr. Joseph Diamond

Project Manager: Mr. Robert Worl

Docket: 02-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		<u>SSU6 Power Project (02-AFC-02) Response To CEC Data Adequacy Comments, September 13, 2002, page SOC-6.</u>		
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.	5.8.2.1.3 Capital Cost of the Project of the Potential Impacts on Tax Revenues, page 5.9-9.	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 5.9-12, Summary Of Laws, Ordinances, Regulations, And Standards, page 5.9-21.	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Same as above.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	5.9.4 Mitigation Measures, page 5.9-11.	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 5.9-13 Agency Contact List For Laws, Ordinances, Regulations, And Standards, page 5.9-22.	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No.

01

Date

~~8/19/2002~~

9/16/2002

Technical Area: Socioeconomics

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Dr. Joseph Diamond

Project Manager: ~~Mr.~~ Robert Worl

Docket: 02-AFC-2

Technical Senior: Mr. Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix (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.	5.9.5.5 Permits Required	N/A	

Adequacy Issue: Adequate  Inadequate

### DATA ADEQUACY WORKSHEET

Revision No. ~~00~~ 01 Date ~~08-08-02~~ 09.19.02

Technical Area: Soils  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-2

Technical Staff: Mike Krolak  
 Technical Senior: Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (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 5.3-1 to 23 <u>Supplement Page SOILS-3</u>	<del>No</del> <u>Yes</u>	<del>See soil loss information required below.</del>
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:	Map: Figure 5.3-1A to E; Table 5.3-1	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; and	Page 5.3-2 to 6; Table 5.3-2	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.	Page 5.3-2 to 7	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:	Page 5.3-6 to 7; 12 to 14; Figures 5.3-2A to E; 5.3-3 Table 5.3-3 <u>Supplement Page SOILS-3</u>	<del>No</del> <u>Yes</u>	<del>See soil loss information required below.</del>

Adequacy Issue: Adequate  Inadequate

# DATA ADEQUACY WORKSHEET

Revision No. ~~00~~ 01 Date ~~08-08-02~~ 09.19.02

Technical Area: Soils  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-2

Technical Staff: Mike Krolak  
 Technical Senior: Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (15) (C) (i)	The quantification of accelerated soil loss due to wind and water erosion;	Page 5.3-7 to 8 <u>Supplement Page SOILS-3</u>	<del>No</del> <u>Yes</u>	<del>The AFC states that Universal Soil Loss and Chapin Wind Erosion Equations typically apply to agricultural operations and therefore were deemed inappropriate for the project. However, the USDA states that the Revised Universal Soil Loss Equation can be applied to agricultural land as well as construction sites. The soil loss for the pre-development, construction (w/ and w/out BMPs), and post-construction conditions must be calculated in order to design appropriate erosion control measures. Please provide these calculations or provide a clear explanation as to why the USDA's interpretation is not applicable.</del>
Appendix B (g) (15) (C) (iii)	The effect of power plant emissions on surrounding soil-vegetation systems.	Page 5.3-14	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 5.3-4	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 5.3-6	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 5.3-15 to 21	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 5.3-5	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. ~~00~~ 01 Date ~~08-08-02~~ 09.19.02

Technical Area: Soils  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-2

Technical Staff: Mike Krolak  
 Technical Senior: Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 5.3-6	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 01 Date AugSept. 8~~16~~, 2002

Technical Area: Traffic and Transportation

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Ken Peterson

Project Manager: Robert Worl

Docket: 02-AFC-2

Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sec. 3.3.1.2, pp. 3-6 & 3-7 Sec. 5.8.1.1, pp.5.8-1 & 5.8-2 Sec. 5.10.2 through 5.10.4, pp. 5.10-5 through 5.10-14	Yes	
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	Figure No. 5.10-1 Sec. 5.10.5.3, pp. 5.10-17 through 5.10-19	Yes	
Appendix B (g) (5) (B)	An identification, on topographic maps at a scale of 1:24,000 and a description of existing and planned roads, rail lines, including light rail, bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	Secs. 5.10.1.1.3 through 5.10.1.1.6, pp. 5.10-1 through 5.10-3 Sec. 5.10.2.2.1 & 5.10.2.2.2, pp. 5.10-10 Figure Nos. 5.10-2A through 5.10-2E	<del>No</del> Yes	<del>Please describe any bus routes serving the project vicinity and identify these routes on the 1:24000 topographic maps.</del>
Appendix B (g) (5) (B) (i)	Road classification and design capacity;	Sec. 5.10.1.2, pp. 5.10-3 & 5.10-4 Tables 5.10-10-1 through 5.10-4, pp. 5.10-21 & 5.10-22	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 01 Date AugSept. 8~~16~~, 2002

Technical Area: Traffic and Transportation  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-2

Technical Staff: Ken Peterson  
 Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (B) (ii)	Current daily average and peak traffic counts;	Secs. 5.10.2.2.1 & 2, pp. 5.10-8 through 5.10-10  Tables 5.10-1 & 5.10-3 through 5.10-9, pp. 5.10-21 through 5.10-25	Yes	
Appendix B (g) (5) (B) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Sec. 5.10.1.2, pp. 5.10-3 & 510-4  Sec. 5.10.2.2.1& 5.10.2.2.2, pp. 5.10-9 & 5.10-10  Tables 5.10-1, 5.10-2, 5.10-4 & 5.10-7 through 9, pp. 5.10-21 through 5.10-25	Yes	
Appendix B (g) (5) (B) (iv)	Weight and load limitations;	Sec. 5.10.1.1.3, p. 5.10.2	Yes	
Appendix B (g) (5) (B) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Table 5.10-1, p. 5.10-21	<del>No</del> Yes	Please provide percentage of current traffic flows for passenger vehicles and trucks for local roads.
Appendix B (g) (5) (B) (vi)	An identification of any road features affecting public safety.	None	Yes	
Appendix B (g) (5) (C)	A description of any new, planned, or programmed transportation facilities in the project vicinity, including those necessary for construction and operation of the proposed project. Specify the location of such facilities on topographic maps at a scale of 1:24,000.	None Sec. 5.10.1.1.3, p. 5.10-2	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 01 Date AugSept. 816, 2002

Technical Area: Traffic and Transportation

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Ken Peterson

Project Manager: Robert Worl

Docket: 02-AFC-2

Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (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).	Sec. 5.10.2 & 5.10-3, pp. 5.10-5 through 5.10-13	Yes	
Appendix B (g) (5) (E)	A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.	Sec. 5.13.2.1.1, pp. 5.13-5 & 5.13-6, Sec. 5.13.2.1.2, pp. 5.13-8 & 5.13-9 Table 5.14-1, pp. 5.14-13 through 5.14-15 Table 5.13-1, p. 5.13-14	<del>No</del> Yes	<del>Please submit amounts of construction period hazardous material, estimated number of trips, anticipated routes, and means of hazardous materials transportation.</del>
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Sec. 5.10.5, pp. 5.10-14 through 5.10-19 Table 5.10-10, pp. 5.10-26 through 5.10-29	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.		<del>No</del> Yes	<del>Please submit tables which identify agencies with jurisdiction to issue permits and approvals or to enforce LORS.</del>
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sec. 5.10.5, pp. 5.10-14 through 5.10-19	Yes	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 01 Date ~~Aug~~Sept. 8, 2002

Technical Area: Traffic and Transportation

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Ken Peterson

Project Manager: Robert Worl

Docket: 02-AFC-2

Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (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 5.10-11, p. 5.10-30	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.		<del>No</del> Yes	Please submit a permit schedule.

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 01 Date Sept18, 2002

Technical Area: **Transmission System Eng.**

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Demetrio Bucaneg & Sudath Arachchige

Project Manager: **Robert Worl**

Docket: 02-AFC-2

Technical Senior: Al McCuen

<p>Appendix B (b) (2) (C)</p>	<p>A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and</p>	<p>Section 3 Figure 3.1-2 Figure 3.3-6 Figure 3.3-8 Section 4 Sections 5.1 through 5.17 Figure 5.12-10B Figure 6.1-5 Appendix E Appendix L Appendix P SI&amp;IS Volume 1 SI&amp;IS Volume 2, Part 1/2 SI&amp;IS Volume 2, Part 2/2</p> <p>Letters submitted by IID to SCE,APS and WAPA to review the System Impact Study on July-17-02</p> <p>Data adequacy comments &amp; one line diagram received by Sept-13-02</p>	<p>No- Yes</p>	<p><del>Staff observes that the System Impact Study (SIS) with 2005 Heavy Summer base case addressed system impacts in the IID system, but does not show the impacts on the surrounding systems of WAPA (Lower Colorado River), SCE (Dever Mirage System) &amp; APS (Yuma Area). Also, the SIS was not performed under 2005 Light Spring conditions. Please provide the following.</del></p> <p><del>a. Analyze the system for Power Flow, with and without the new project for the 2005 Light Spring system conditions for the surrounding systems.</del></p> <p><del>b. Analyze the IID system for 2005 Light Spring case for Power flow, with and without the new project.</del></p> <p><del>c. Coordinate the study as in item a and b above and the reports with the adjacent Utilities (WAPA, SCE, SDGE &amp; APS) and provide their comments about the interconnection study and mitigation plan for any adverse impact in their system.</del></p> <p><del>d. Provide power load flow diagrams for all pre and post normal and contingency criteria violations (N-0, N-1, N-2) conditions.</del></p> <p><del>e. Provide in a table form showing ratings of the overloaded line, the loading (in MVA and percentage) before and after adding the new generation and their differences (in MVA and percentage) side by side. This must include all pre-project existing overloads, which increases or decreases after the addition of the new project.</del></p> <p><del>f. List mitigation measures considered (required) and those selected (if available) for all criteria violations.</del></p>
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Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 01 Date Sept18, 2002

Technical Area: **Transmission System Eng.**

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Demetrio Bucaneg & Sudath Arachchige

Project Manager: **Robert Worl**

Docket: 02-AFC-2

Technical Senior: Al McCuen

<p>Appendix B (b) (2) (D)</p>	<p>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.</p>	<p>Section 3.3.6 Sections 5.1 through 5.17 Figure 3.1-2 Figure 3.3-8 Appendix P SI&amp;IS Volume 1 SI&amp;IS Volume 2, Part 1/2 SI&amp;IS Volume 2, Part 2/2</p>	<p>Yes</p>	
<p>Appendix B (g) (18) (A)</p>	<p>The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.</p>	<p>Section 3.3.6 Figure 3.1-2 Appendix P SI&amp;IS Volume 1  Letters submitted by IID to SCE,APS and WAPA to review the System Impact Study on July-17-02  Data adequacy comments &amp; one line diagram received by Sept-13-02</p>	<p>No-Yes</p>	<p><del>Furnish location &amp; description of impacted power systems element/s due to the stated pre-existing conditions in Section 1 of Appendix P and for affected facilities due to the project.</del></p>
<p>Appendix B (g) (18) (B)</p>	<p>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.</p>			<p>Refer to TLSN.</p>

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 01 Date Sept18, 2002

Technical Area: Transmission System Eng.

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Demetrio Bucaneg & Sudath Arachchige

Project Manager: Robert Worl

Docket: 02-AFC-2

Technical Senior: Al McCuen

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.			Refer to TLSN.
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 1.3.2.3 Section 3.3.6.1.2 Section 3.3.6.4 Section 3.3.6.7 Table 5.8-4 (Local) Appendix E	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 3.3.6.7 Section 4.4 Sections 5.1 through 5.16	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 1.2.1 Section 1.3.2 Section 2.3 Section 3.3.4 Section 3.3.6 Appendix P	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	N/A	N/A	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 01 Date Sept18, 2002

Technical Area: Transmission System Eng.

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: Demetrio Bucaneg & Sudath Arachchige

Project Manager: Robert Worl

Docket: 02-AFC-2

Technical Senior: Al McCuen

<p>Appendix B (i) (2) (A)</p>	<p>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.</p>	<p>Section 3.3.4.1.1 Section 3.3.6 Figure 3.1-2 Figure 3.3-8 Appendix P</p> <p>Letters submitted by IID to SCE,APS and WAPA to review the System Impact Study on July-17-02</p> <p>Data adequacy comments &amp; one line diagram received by Sept-13-02</p>	<p>No-Yes</p>	<p><del>See comments on Appendix B (b) (2) (C)</del></p>
<p>Appendix B (i) (2) (B)</p>	<p>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.</p>	<p>Section 3.3.4.1.1 Section 3.3.6 Figure 3.1-2 Figure 3.3-8 Appendix P, Section 1.2</p>	<p>Yes</p>	

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 12 Date 9/18/02

Technical Area: Visual Resources

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: James Adams

Project Manager: Robert Worl

Docket: 02-AFC-02

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	PP. 5.12-1 through 12-14 Sections 5.12-1 through 12-4, Pg. 5.12-13 Section 5.12.2.2.2	Yes	
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the project, the region that can be seen from the vicinity of the project, and the proposed project site. Include:	PP. 5.12-1 through 12-3 Section 5.12-1	Yes	
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 of the areas from which the project may be seen, identification of the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(E);	Figures 5.12-2A –2E	Yes	
Appendix B (g) (6) (A) (ii)	Elevations of any existing structures on the site; and	Pg. 1-4, Section 1.3.1	N/A	
Appendix B (g) (6) (A) (iii)	The visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities.	PP. 5.12-1 & 2, Section 5.12.1	Yes	
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that will be impacted by the proposed project.	PP. 5.12-4 through 12-6, Section 5.12.1.3.1 through 3.3	Yes	

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Visual Resources  
 Project Manager: Robert Worl

**DATA ADEQUACY WORKSHEET**

Revision No. 12 Date 9/18/02  
 Technical Staff: James Adams  
 Technical Senior: Dale Edwards

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-02

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (C)	After discussions with staff and community residents who live in close proximity to the proposed project, identify the scenic corridors and any visually sensitive areas potentially affected by the proposed project, including recreational and residential areas. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. For purposes of this section, a scenic corridor is that area of land with scenic natural beauty, adjacent to and visible from a linear feature, such as a road, or river.	PP. 5.12-6 through 12—8 Section 5.12.1.3.3 through 4.3. Pg. 5.12-1 & 2 Section 5.12.1.1 <u>Draft Submittal, VIS-1</u>	<del>No</del> <u>Yes</u>	<del>Please provide the estimated number of residences with views of the project.</del>
Appendix B (g) (6) (D)	A description of the dimensions, color, and material of each major visible component of the project.	PP. 5.12-10 & 11 Section 5.12.2.2 <u>VIS-5</u> <u>Second draft filing</u> <u>Vis-2</u>	<del>No</del> <u>Yes</u>	<del>Please provide a description of the dimensions, color, and material of each major visible component of the project.</del>
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 3.3-6, 5.12-8A, B & C, 12-9A B, 10A & B	Yes	
Appendix B (g) (6) (F)	An assessment of the visual impacts of the project, including light and glare, and visible plumes.	PP. 5.12-11 through 13 Section 5.12.2.2.1 <u>VIS-8</u> <u>Second draft filing</u> <u>VIS-3</u>	<del>No</del> <u>Yes</u>	<del>Please discuss the plume impacts from the non-cooling tower exhaust stacks.</del>

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 12 Date 9/18/02

Technical Area: Visual Resources

Project: Salton Sea Unit 6 Geothermal Project

Technical Staff: James Adams

Project Manager: Robert Worl

Docket: 02-AFC-02

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (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;	PP. 5.12-18 & 19 Table 5.12-5	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	PP. 5.12-18 & 19 Table 5.12-5	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pg. 5.12-15 Section 5.12.5 <u>VIS-9 through 13</u>	<del>No</del> <u>Yes</u>	<del>Please provide a discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A). In addition, discuss how the project will conform to all the policies in Table 5.12-5.</del>
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.	Pg. 5.12-20 Table 5.12-6	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.	Pg. 5.12-15 Section 5.12.5.3	<del>No</del> <u>Yes</u>	<del>Please provide 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.</del>

Adequacy Issue: Adequate  Inadequate

### DATA ADEQUACY WORKSHEET

Revision No. ~~00~~ 01 Date ~~08~~09.19.02

Technical Area: Water Resources  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-2

Technical Staff: Mike Krolak  
 Technical Senior: Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (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 5.4-1 to 29 Page 5.17-1 to 7 <u>Data Adequacy Supplement Pages WATER-1 to 22, including ROWD attachment</u>	<del>No</del> <u>Yes</u>	<del>The information required in subsequent sections below will, as a whole, satisfy the information requirements for this section.</del>
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:		<del>No</del> <u>Yes</u>	<del>See information requirements for Appendix B (g) (14) (A) (i) below.</del>
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; and	Page 5.4-8; 13-14; 22 <u>Data Adequacy Supplement Page WATER-5 and ROWD attachment</u>	<del>No</del> <u>Yes</u>	<del>Provide a letter from the Colorado River Basin Regional Water Quality Control Board (RWQCB) that states the application for Waste Discharge Requirements (WDR) has been accepted as complete, and that the RWQCB has all information required of a discharger to apply for WDRs.</del>
Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	Page 5.4-7 to 11	Yes	
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:	Page 5.4-1 to 6 Tables 5.4-1 to 4 Figures 5.4-1A to E	<del>No</del> <u>Yes</u>	<del>See information requirements for Appendix B (g) (14) (B) (i) and (iii) below.</del>
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Page 5.4-3 to 6 Appendix J <u>Data Adequacy Supplement Page WATER-10 and Figures 5-3, 5-12, and 5-13</u>	<del>No</del> <u>Yes</u>	<del>Please provide a hydrostratigraphic map depicting the underlying aquifers in the plant vicinity and their location relative to project elements.</del>
Appendix B (g) (14) (B) (ii)	Surface water bodies; and	Page 5.4-3 Figures 5.4-1A to E	Yes	

Adequacy Issue: Adequate  Inadequate

## DATA ADEQUACY WORKSHEET

Revision No. ~~00~~ 01 Date ~~08~~09.19.02

Technical Area: Water Resources  
 Project Manager: Robert Worl

Project: Salton Sea Unit 6 Geothermal Project  
 Docket: 02-AFC-2

Technical Staff: Mike Krolak  
 Technical Senior: Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	Page 5.4-2 to 3 <u>Data Adequacy Supplement Figure WR-9</u>	<del>No</del> <u>Yes</u>	<del>Please provide maps that delineate the project's relation to FEMA flood zone boundaries.</del>
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:		<del>No</del> <u>Yes</u>	<del>See information requirements for Appendix B (g) (14) (C) (i) and (iv) below.</del>
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;	Page 5.4-1; 8 to 9 <u>Data Adequacy Supplement Page WATER-15</u>	<del>No</del> <u>Yes</u>	<del>Because a portion of the Imperial Irrigation District (IID) fresh water supply for the project will be used for cooling tower makeup, please provide a discussion of all other potential sources and an explanation why these sources were not feasible.</del>
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	Table 3.3-1; 2; 5 Table 5.4-4	Yes	
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project; and	Table 3.3-3 & 4	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.	Page 3-15 to 16 Figure 3.3-7 & 9 <u>Data Adequacy Supplement Page WATER-16</u>	<del>No</del> <u>Yes</u>	<del>Page 5.4-8 of the AFC references a stormwater collection system to be employed during construction. Please describe this system in greater detail, including any associated treatment facilities.</del>
Appendix B (g) (14) (D)	A description of pre-, and post-construction runoff and drainage patterns, including:		<del>No</del> <u>Yes</u>	<del>See information requirements for Appendix B (g) (14) (D) (i) and (ii) below.</del>
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	Figure 3.3-11 Table 5.4-1 & 2 <u>Data Adequacy Supplement Figure WR-13</u>	<del>No</del> <u>Yes</u>	<del>Please provide a pre-construction runoff pattern diagram that depicts the direction of flows across the site. The diagram should include clearly marked topographic contours.</del>

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Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	5.4-7 to 9 <u>Data Adequacy Supplement Page WATER-19</u>	<del>No</del> <u>Yes</u>	<del>Please describe the detention pond proposed for the operational phase of the project in greater detail. Provide a conceptual description of the pond, including design specifications and calculations that verify that the pond would not discharge any stormwater during the 100-year storm event. Please also confirm that the pond would operate as an evaporation/percolation pond, as the AFC seems to infer. If the pond will not be operating as an evaporation/percolation pond, please describe how it will function.</del>
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;	Page 5.4-7 to 9	Yes	
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	Page 5.4-7 to 11 <u>Data Adequacy Supplement Page WATER-20</u>	<del>No</del> <u>Yes</u>	<del>Construction will likely require dewatering in some areas. Please describe how dewatered groundwater will be handled and/or discharged.</del>
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	Page 5.4-9 <u>Data Adequacy Supplement Pages WATER-11 to 13, 21</u>	<del>No</del> <u>Yes</u>	<del>Page 5.4-9 of the AFC states that an 8-foot high berm will be constructed around the perimeter of the site. Please provide modeling results that demonstrate the berm's capability to prevent onsite flooding for a 100-year frequency, 24-hour duration runoff event while avoiding impacts to downstream persons and property caused by perimeter diversions of flows. Provide all assumptions and parameters used in the model. Please also describe any mitigation that would be required to reduce flooding impacts, either on-site or downstream.</del>

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (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 5.4-5	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 5.4-5	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 5.4-13 to 22 <u>Data Adequacy Supplement Pages WATER 1 to 3</u>	<del>No</del> <u>Yes</u>	<del>The AFC states that the project would comply with the requirements set forth in Division 3, Chapter 4, Sections 3700-3776 of the Public Resources Code regarding geothermal production and injection wells, but provides no details as to how this will be achieved. Please describe how the project will comply with these requirements, including any permits that would need to be obtained from the California Division of Oil, Gas and Geothermal Resources.</del>
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 5.4-6	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.	Page 5.4-22	Yes	