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September 25, 2007

#### **BY HAND DELIVERY**

Dr. James W. Reede Project Manager California Energy Commission 1516 Ninth Street Sacramento, CA 95814

#### Re: Carlsbad Energy Center Project (07-AFC-Courtesy Copies Data Adequacy Checklists

Dear Dr. Reede:

Carlsbad Energy Center LLC submits for your reference five (5) courtesy copies of Data Adequacy Checklists prepared in connection with its recently submitted Application for Certification. In addition, please find one CD-ROM, which contains the data files for these checklists.

Should you have any questions regarding the checklists, please contact John McKinsey or me at (916) 447-0700.

Respectfully submitted,

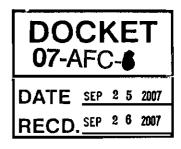
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Enclosures

cc: Tim Hemig, Carlsbad Energy Center LLC John A. McKinsey, Esq., Stoel Rives LLP Robert Mason, CH2M HILL

> Oregon Washington California Utah Idaho



### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Air Quality

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		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 5.1.1 (pp. 5.1-1 to 5.1-3), 5.1.3 (pp. 5.1-4 to 5.1-10), 5.1.4 (p. 5.1-11), 5.1.6 (pp. 5.1-26 to 5.1-51), 5.1.7 (pp. 5.1-51 to 5.1-57), 5.1.8 (pp. 5.1-57 to 5.1-61) and 5.1.9 (p. 5.1-61)		
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.	Sections 5.1,6 (pp. 5.1-28 to 5.1-51) and 5.1.7 (pp. 5.1-51 to 5.1-57)		
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.	Sections 5.1.6.1 (pp. 5.1-29 to 5.1-33) and 5.1.6.3 (pp. 5.1-37 to 5.1-50)		
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Sections 5.1.7.3.1 and 5.1.7.3.2 (pp. 5.1-53 to 5.1- 54)		
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Not applicable because of proposed use of dry cooling		
Appendix B (g) (8) (E)	The emission rates of criteria pollutants and greenhouse gases (CO2, CH4, N2O, and SF6) from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.	Sections 5.1.6.2 (pp.5.1-31 to 5.1-37) and 5.1.8.2 (pp. 5.1-59 to 5.1-61)		

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Revision No. 0 Date

Technical Area: Project Manager: te

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SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (F)(i)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Section 5.1.6.2 (pp. 5.1-31 to 5.1-37)		
Appendix B (g) (8) (F)(ii)	A description of the project's planned initial commissioning phase, which is the phase between the first firing of emissions sources and the commercial operations date, including the types and durations of equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests.	Sections 5.1.6.3.2., 5.1.6.3.3 and 5.1.6.3.4 (pp. 5.1-43 to 5.1-47)		
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Section 5.1.6.3.5 (pp. 5.1- 47 to 5.1-49)		
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.	Section 5.1.6.3.1 (pp. 5.1- 37 to 5.1-43)		

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SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995)), which is incorporated by reference in its entirety.	Not applicable because data not collected onsite		
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 5.1A for wind roses and wind speed frequency tables. Detailed meteorological data included modeling CD.		
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:	See below		
Appendix B (g) (8) (l) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust ( $PM_{10}$ ) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides ( $NO_x$ ), sulfur dioxide ( $SO_2$ ), carbon monoxide (CO), and particulate matter less than 10 microns in diameter ( $PM_{10}$ ) and particulate matter less than 2.5 microns in diameter ( $PM2.5$ )] from construction-related equipment;	Appendix 5.1.E		

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Revision No. Date 0

Technical Area: Project Manager: ate

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant ( $NO_x$ , $SO_2$ , $CO$ , $PM_{10}$ and $PM_{2.5}$ ) 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;	Section 5.1.6.3 (pp. 5.1-37 to 5.1-50)		
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; and	Section 5.1.8 (pp. 5.1-57 to 5.1-61)		
Appendix B (g) (8) (I) (iv)	An air dispersion modeling analysis of the impacts of the initial commissioning phase emissions on state and federal ambient air quality standards for $NO_X$ , $SO_2$ , $CO$ , $PM_{10}$ , and $PM_{2.5}$ .	Section 5.1.6.3.4 (pp. 5.1- 46 to 5.1-47)		
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:	See below		
Appendix B (g) (8) (J) (i)	The quantity of offsets or emission reductions that are needed to satisfy air permitting requirements of local permitting agencies (such as the air district), state and federal oversight air agencies, and the California Energy Commission. Identify by criteria air pollutant, and if appropriate, greenhouse gas; and	Section 5.1.7.3.3 (pp. 5.1- 54)		

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions;			
Appendix B (g) (8) (K)	A detailed description of the mitigation, if any, which an applicant may propose, for all projects impacts from criteria pollutants that currently exceed state or federal ambient air quality standards, but are not subject to offset requirements under the district's new source review rule.	Section 5.1.9 (p. 5.1-61)		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Table 5.1-15 (pp. 5.1-24 to 5.1-27)		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 5.1-15 (pp. 5.1-24 to 5.1-27)		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 5.1-9 (p. 5.1-12)		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area:	Air Quality		Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:			Docket:	07-AFC-6	Technical Senior:	

SITING		AFC PAGE NUMBER AND	ADEQUATE	INFORMATION REQUIRED TO MAKE AFC CONFORM
REGULATIONS		SECTION NUMBER	YES OR NO	WITH REGULATIONS
Appendix B (i) (3)	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 5.1-15 (pp. 5.1-24 to 5.1-27)		· · ·

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Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area:	Alternatives	-	Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:			Docket:	07-AFC-6	Technical Senior:	

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (D)	A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant.	Section 6.1,2, pg. 6-2. Section 6.2.1, pg 6-4. Section 6.5, pgs 6-7 to 6-8. Section 6.6, pgs 6-8 to 6- 11. Section 6.4.1, pgs. 6-6 to 6- 7.		
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.	Section 6.1.1, pgs. 6-1 to 6- 2. Section 6.1.2, pg. 6-2 Sections 6.2, 6.3, 6.4 and 6.5, pgs, 6-3 to 6-11. Section 6.3 – No Project Alternative, Section 6.4. Alternative Section 6.5 Alternative Configurations, 6.6 Alternative Technologies		
Appendix B (f) (2)	An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1).	Section 6.3 No Project Alternative – pgs 6-3 to 6-6. Section 6.4 – Proposed Alternative Sites, pgs 6-6 to 6-7 Section 6.5 Alternative Configurations – pgs. 6-7 to 6-8, Section 6.6 Alternative Technologies – Pages 6-8 to 6-11.		

Adequacy Issue: Adequate	e Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area: Land Us	se	Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:		Docket:	07-AFC-6	Technical Senior:	

SITING REGULATIONS		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.	Subsection 5.6.2, page 5.6- 1; Subsection 5.6.4.2.1 pages 5.6-16 – 5.6-21; and Subsection 5.6-8, pages 5.6-35 – 5.6-40; Subsection 5.6.9, pages 5.6-40 – 5.6- 41; Figures 5.6-1 – 5.6-4.		
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:	Subsection 5.6-4, pages 5.6-16 ~ 5.6-20; and Figures 5.6-1 – 5.6-4.	4	
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;	Subsection 5.6.4.2.3, pages 5.6-21 – 5.6-22.		
Appendix B (g) (3) (A) (ii)	A discussion of any recent or proposed zone changes and/or general plan amendments; noticed by an elected or appointed board, commission, or similar entity at the state or local level;	Subsection 5.6.5, page 5.6- 22.		
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	Subsection 5.6.6, page 5.6- 22.		

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#### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Biological Resources

Project: Carlsbad Energy Center Project Docket: 07-AFC-6 Technical Staff: Technical Senior:

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 5.2.3 on page 5.2-5 to page 5.2-10, Section 5.2.4 on page 5.2-10 to page 5.2-21, Section 5.2.5 on page 5.2-21 to page 5.2- 22.		
Appendix B (g) (13) (A)	A regional overview and discussion of terrestrial and aquatic biological resources, with particular attention to sensitive biological resources within ten (10) miles of the project. Include a map at a scale of 1:100,000 (or other suitable scale) showing sensitive biological resource location(s) in relation to the project site and related facilities and any boundaries of a local Habitat Conservation Plan or similar open space land use plan or designation. Sensitive biological resources include the following:	Section 5.2.2.3 on page 5.2-3 to page 5.2-5, Section 5.2.3 on page 5.2-5 to page 5.2-10, Figure 5.2-1		
Appendix B (g) (13) (A) (i)	species listed under state or federal Endangered Species Acts;	Section 5.2.3.4 on page 5.2-9 to page 5.2-10, Section 5.2.4.3 on page 5.2-16 to page 5.2-19, Table 5.2-5 on page 5.2-41 to page 5.2-48, Appendix 5.2A		
Appendix B (g) (13) (A) (ii)	resources defined in sections 1702(q) and (v) of Title 20 of the California Code of Regulations;	Section 5.2.2.3 on page 5.2-3 to page 5.2-5, Section 5.2.3 on page 5.2-5 to page 5.2-10, Section 5.2.4.3 on page 5.2-16 to page 5.2-19, Table 5.2-5 on page 5.2-41 to page 5.2-48, Appendix 5.2A		
Appendix B (g) (13) (A) (iii)	species identified as state Fully Protected;	Table 5.2-5 on page 5.2-41 to page 5.2-48, Appendix 5.2A		

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Appendix B (g) (13) (A) (iv)	species covered by Migratory Bird Treaty Act;	Section 5.2.4.3.3 on pages 5.2-17 to 5.2-19, Section 5.2.4.3.4 on pages 5.2-19 to 5.2-19, Section 5.2.4.3.5 on pages 5.2-19 to 5.2-19, Table 5.2-5 on pages 5.2- 41 to 5.2-48, Appendix 5.2A		
Appendix B (g) (13) (A) (v)	species and habitats identified by local, state, and federal agencies as needing protection, including but not limited to those identified by the California Natural Diversity Database, or where applicable, in Local Coastal Programs or in relevant decisions of the California Coastal Commission; and	Table 5.2-5 on pages 5.2- 41 to 5.2-48, Appendix 5.2A		
Appendix B (g) (13) (A) (vi)	fish and wildlife species that have commercial and/or recreational value.	Section 5.2.3.1 on pages 5.2-5 to 5.2-6		
Appendix B (g) (13) (B)	Include a list of the species actually observed and those with a potential to occur within 1 mile of the project site and 1,000 feet from the outer edge of linear facility corridors. Maps or aerial photographs shall include the following:	Table 5.2-3 on pages 5.2- 35 to 5.2-36 and Table 5.2- 4 on pages 5.2-37 to 5.2-39		
Àppendix B (g) (13) (B) (i)	Detailed maps at a scale of 1:6,000 or color aerial photographs taken at a recommended scale of 1 inch equals 500 feet (1:6,000) with a 30 percent overlap that show the proposed project site and related facilities, biological resources including, but not limited to, those found during project-related field surveys and in records from the California Natural Diversity Database, and the associated areas where biological surveys were conducted. Label the biological resources and survey areas as well as the project facilities;	Figures 5.2-4 and 5.2-5		· · ·

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Appendix B (g) (13) (B) (ii)	A depiction of the extent of the thermal plume at the surface of the water if cooling water is proposed to be discharged to a water source. Provide the location for the intake and discharge structures on an aerial photograph(s) or detailed maps. Water sources include, but are not limited to, waterways, lakes, impoundments, oceans, bays, rivers, and estuaries; and	Not applicable as explained in Section 5.2.4.2.3 on pages 5.2-14 to 5.2-14, Section 5.2.4.2.4 on pages 5.2-15 to 5.2-15, and Section 5.2.4.4 on pages 5.2-19 to 5.2-20.		
Appendix B (g) (13) (B) (iii)	An aerial photo or wetlands delineation maps at a scale of (1:2,400) showing any potential jurisdictional and non-jurisdictional wetlands delineated out to 250 feet from the edge of disturbance if wetlands occur within 250 feet of the project site and/or related facilities that would be included with the US Army Corps of Engineers Section 404 Permit application. For projects proposed to be located within the coastal zone, also provide aerial photographs or maps as described above that identify wetlands as defined by the Coastal Act.	Figure 5.2-1		
Appendix B (g) (13) (C)	A discussion of the biological resources at the proposed project site and related facilities. Related facilities include, but are not limited to, laydown and parking areas, gas and water supply pipelines, transmission lines, and roads. The discussion shall address the distribution of vegetation community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and other appropriate biological resources including the following:	Section 5.2.3 on pages 5.2- 5 to 5.2-10, Section 5.2.4 on pages 5.2-10 to 5.2-21, Table 5.2-3 on pages 5.2- 35 to 5.2-36 and Table 5.2- 4 on pages 5.2-37 to 5.2- 39, Figure 5.2-2, Figure 5.2-5		
Appendix B (g) (13) (C) (i)	A list of all the species actually observed;	Table 5.2-3 on pages 5.2- 35 to 5.2-36 and Table 5.2- 4 on pages 5.2-37 to 5.2-39		
Appendix B (g) (13) (C) (ii)	A list of sensitive species and habitats with a potential to occur (as defined in (A) above); and	Table 5.2-5 on pages 5.2- 41 to 5.2-48, Appendix 5.2- A		

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Appendix B (g) (13) (C) (iii)	If cooling water is taken directly from or discharged to a surface water feature source, include a description of the intake structure, screens, water volume, intake velocity hydraulic zone field of influence, and the thermal plume dispersion area as depicted in response to B(ii) above. Describe the thermal plume size and dispersion under high and low tides, and in response to local currents and seasonal changes. Provide a discussion of the aquatic habitats, biological resources, and critical life stages found in these affected waters. For repower projects that anticipate no change in cooling water flow, this information shall be provided in the form of the most recent federal Clean Water Act 316(a) and (b) studies of entrainment and impingement impacts that has been completed within the last five (5) years. For new projects or repower projects proposing to use once-through cooling and anticipating an increase in cooling water flow, provide a complete impingement and entrainment analysis per guidance in (D)(ii), below.	Not applicable as explained in Section 5.2.4.2.3 on pages 5.2-14 to 5.2-14, Section 5.2.4.2.4 on pages 5.2-15 to 5.2-15, and Section 5.2.4.4 on pages 5.2-19 to 5.2-20.		
Appendix B (g) (13) (D)	A description and results of all field studies and seasonal surveys used to provide biological baseline information about the project site and associated facilities. Include copies of the California Natural Diversity Database records and field survey forms completed by the applicant's biologist(s). Identify the date(s) the surveys were completed, methods used to complete the surveys, and the name(s) and qualifications of the biologists conducting the surveys. Include:	Section 5.2.3 on pages 5.2- 5 to 5.2-10, Table 5.2-3 on pages 5.2-35 to 5.2-36 and Table 5.2-4 on pages 5.2- 37 to 5.2-39		

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Appendix B (g) (13) (D) (i)	Current biological resources surveys conducted using appropriate field survey protocols during the appropriate season(s). State and federal agencies with jurisdiction shall be consulted for field survey protocol guidance prior to surveys if a protocol exists;	Not applicable		
Appendix B (g) (13) (D) (ii)	If cooling water is proposed to be taken directly from or discharged to a surface water feature source, seasonal aquatic resource studies and surveys shall be conducted. Aquatic resource survey data shall include, but is not limited to, fish trawls, ichthyoplankton and benthic sampling, and related temperature and water quality samples. For new projects or repower projects anticipating a change in cooling water flows, sampling protocols shall be provided to the Energy Commission staff for review and concurrence prior to the start of sampling. For repower projects not anticipating a change in cooling water flows, this information shall be provided in the form of the most recent federal Clean Water Act 316(b) impingement and entrainment impact study completed within five (5) years of the AFC filing date; and	Not applicable as explained in Section 5.2.4.2.3 on pages 5.2-14 to 5.2-14, Section 5.2.4.2.4 on pages 5.2-15 to 5.2-15, and Section 5.2.4.4 on pages 5.2-19 to 5.2-20.		
Appendix B (g) (13) (D) (iii)	If the project or any related facilities could impact a jurisdictional or non-jurisdictional wetland, provide completed Army Corps of Engineers wetland delineation forms and/or determination of wetland status pursuant to Coastal Act requirements, name(s) and qualifications of biologist(s) completing the delineation, the results of the delineation and a table showing wetland acreage amounts to be impacted.	Not applicable as explained in Section 5.2.4.4 on pages 5.2-19 to 5.2-20.		
Appendix B (g) (13) (E)	Impacts discussion of the following:			

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SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (13) (E) (i)	all impacts (direct, indirect, and cumulative) to biological resources from project site preparation, construction activities, plant operation, maintenance, and closure. Discussion shall also address sensitive species habitat impacts from cooling tower drift and air emissions;	Section 5.2.4 on pages 5.2- 10 to 5.2-21		
Appendix B (g) (13) (E) (ii)	facilities that propose to take water directly from, and/or discharge water to surface water features, daytime and nighttime impacts from the intake and discharge of water during operation, water velocity at the intake screen, the intake field of influence, impingement, entrainment, and thermal discharge. Provide a discussion of the extent of the thermal plume, effluent chemicals, oxygen saturation, intake pump operations, and the volume and rate of cooling water flow at the intake and discharge location; and	Not applicable as explained in Section 5.2.4.2.3 on pages 5.2-14 to 5.2-14, Section 5.2.4.2.4 on pages 5.2-15 to 5.2-15, and Section 5.2.4.4 on pages 5.2-19 to 5.2-20.		
Appendix B (g) (13) (E) (iii)	Methods to control biofouling and chemical concentrations, and temperatures that are currently being discharged or will be discharged to receiving waters.	Not applicable as explained in Section 5.2.4.2.3 on pages 5.2-14 to 5.2-14, Section 5.2.4.2.4 on pages 5.2-15 to 5.2-15, and Section 5.2.4.4 on pages 5.2-19 to 5.2-20.		
Appendix B (g) (13) (F)	A discussion of all feasible mitigation measures including, but not limited to the following:			
Appendix B (g) (13) (F) (i)	All measures proposed to avoid and/or reduce adverse impacts to biological resources;	Section 5.2.4.2.1 on pages 5.2-13 to 5.2-14, Section 5.2.4.2.6 on pages 5.2-15 to 5.2-16, Section 5.2.5 on pages 5.2-21 to 5.2-22, Section 5.2.6 on pages 5.2- 22 to 5.2-28		

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### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager:

Adequate Biological Resources

Carlsbad Energy Center Project Project: Docket: 07-AFC-6

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (13) (F) (ii)	All off-site habitat mitigation and habitat improvement or compensation, and an identification of contacts for compensation habitat and management;	Not applicable.		
Appendix B (g) (13) (F) (iii)	Design features to better disperse or eliminate a thermal discharge;	Not applicable as explained in Section 5.2.4.2.3 on pages 5.2-14 to 5.2-14, Section 5.2.4.2.4 on pages 5.2-15 to 5.2-15, and Section 5.2.4.4 on pages 5.2-19 to 5.2-20.		
Appendix B (g) (13) (F) (iv)	All measures proposed to avoid or minimize adverse impacts of cooling water intake. This shall include a Best Technology Available (BTA) discussion. If BTA is not being proposed, the rationale for not selecting BTA must be provided; and	Not applicable as explained in Section 5.2.4.2.3 on pages 5.2-14 to 5.2-14, Section 5.2.4.2.4 on pages 5.2-15 to 5.2-15, and Section 5.2.4.4 on pages 5.2-19 to 5.2-20.		
Appendix B (g) (13) (F) (v)	Educational programs to enhance employee awareness during construction and operation to protect biological resources.	Section 5.2.5 on pages 5.2- 21 to 5.2-22, Section 5.2.6 on pages 5.2-22 to 5.2-28		
Appendix B (g) (13) (G)	A discussion of compliance and monitoring programs to ensure the effectiveness of impact avoidance and mitigation measures incorporated into the project.	Section 5.2.5 on pages 5.2- 21 to 5.2-22, Section 5.2.6 on pages 5.2-22 to 5.2-28		
Appendix B (g) (13) (H)	Submit copies of any preliminary correspondence between the project applicant and state and federal resource agencies regarding whether federal or state permits from other agencies such as the U. S. Fish and Wildlife Service, the National Marine Fisheries Service, the U.S. Army Corps of Engineers, the California Department of Fish and Game, and the Regional Water Quality Control Board will be required for the proposed project.	Not applicable.		

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### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Biological Resources

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Table 5.2-1 on pages 5.2- 31 to 5.2-33		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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.	Not applicable as explained in Section 5.2.8 on pages 5.2-28 to 5.2-28.		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Not applicable.		
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Not applicable as explained in Section 5.2.8 on pages 5.2-28 to 5.2-28.		

Adequacy issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area:	Cultural Re	sources	Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:			Docket:	07-AFC-6	Technical Senior:	

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.	Existing conditions: pp. 5.3- 17 and 5.3-18, §5.3.4 and §5.3.4.1 Cumulative impacts: p. 5.3- 19, §5.3.5 Mitigation measures:pp.5.3-19 to 5.3- 21, §5.3.6		
Appendix B (g) (2) (A)	A summary of the ethnology, prehistory, and history of the region with emphasis on the area within no more than a 5-mile radius of the project location.	Monitoring plans: p. 5.3-21, §5.3.7.2 Summary of ethnology, prehistory, and history: pp. 5.3-5 to 5.3-9, §5.3.3.2 to 5.3.3.4		

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# DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Cultural Resources

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (B)	The results of a literature search to identify cultural resources within an area not less than a 1-mile radius around the project site and not less that than one-quarter (0.25) mile on each side of the linear facilities. Identify any cultural resources listed pursuant to ordinance by a city or county, or recognized by any local historical or archaeological society or museum. Literature searches to identify the above cultural resources must be completed by, or under the direction of, individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.	Literature search: pp. 5.3-9 to 5.3-13, §5.3.3.5, 5.3.3.5.1, Tables 5.3-2 and 5.3-3 Complete copy of literature search: Vol 2, Appendix 5.3C Local cultural resources LORS: p. 5.3-12, §5.3.2 Cultural resources recognized by local societies or ordinance: p. 5.3-17, §5.3.3.5.6 Personnel qualifications: Vol 2, Appendix 5.3D		
	Copies of California Department of Parks and Recreation (DPR) 523 forms (Title 14 CCR §4853) shall be provided for all cultural resources (ethnographic, architectural, historical, and archaeological) identified in the literature search as being 45 years or older or of exceptional importance as defined in the National Register Bulletin Guidelines, (36CFR60.4(g)). A copy of the USGS 7.5' quadrangle map of the literature search area delineating the areas of all past surveys and noting the California Historical Resources Information System (CHRIS) identifying number shall be provided. Copies also shall be provided of all technical reports whose survey coverage is wholly or partly within .25 mile of the area surveyed for the project under Section (g)(2)(C), or which report on any archaeological excavations or architectural surveys within the literature search area.	Complete copy of CHRIS literature search: Vol 2, Appendix 5.3C Maps of the literature search area and known cultural resources that occur within one mile of the project or ¼ mile of linear facilities: Vol 2, Appendix 5.3E Previous technical reports: Vol 2, Appendix 5.3C		

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## DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Cultural Resources

Project: Carlsbad Energy Center Project Docket: 07-AFC-6 Technical Staff:

Technical Senior:

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C)	The results of new surveys or surveys less than 5 years old shall be provided if survey records of the area potentially affected by the project are more than five (5) years old. Surveys to identify new cultural resources must be completed by (or under the direction of) individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.	Results of new surveys: pp. 5.3-9 to 5.3-14, §5.3.3.5.1 New technical report: Vol 2, Appendix 5.3B Personnel qualifications: Vol 2, Appendix 5.3D		
	New pedestrian archaeological surveys shall be conducted inclusive of the project site and project linear facility routes, extending to no less than 200' around the project site, substations and staging areas, and to no less than 50' to either side of the right-of-way of project linear facility routes. New historic architecture field surveys in rural areas shall be conducted inclusive of the project site and the project linear facility routes, extending no less than .5 mile out from the proposed plant site and from the routes of all above-ground linear facilities. New historic architecture field surveys in urban and suburban areas shall be conducted inclusive of the project site, extending no less than one parcel's distance from all proposed plant site boundaries. New historic architecture field reconnaissance ("windshield survey") in urban and suburban areas shall be conducted along the routes of all linear facilities to identify, inventory, and characterize structures and districts that appear to be older than 45 years or that are exceptionally significant, whatever their age. A technical report of the results of the new surveys, conforming to the Archaeological Resource Management Report format (CA Office of Historic Preservation Feb 1990), which is incorporated by reference, shall be separately provided and submitted (under confidential cover if archaeological site locations are included). Is font shrunk for size/fit?	Results of new surveys: p. 5.1-15, §5.3.3.5.3 New technical report: Vol 2, Appendix 5.3B		

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### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Cultural Resources

Adequate

Project: Carlsbad Energy Center Project
Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C) cont.	Information included in the technical report shall also be provided in the Application for Certification, except that confidential information (archaeological sites or areas of religious significance) shall be submitted under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq. At a minimum, the technical report shall include the following:	Results of new surveys: pp. 5.3-9 to 5.3-14, §5.3.3.5.1 New technical report: Vol 2, Appendix 5.3B		
Appendix B (g) (2) (C) (i)	The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);	Summary of ethnology, prehistory, and history: pp. 5.3-5 to 5.3-9, §5.3.3.2 through 5.3.3.4 Literature search results: Vol 2, Appendix 5.3C		
Appendix B (g) (2) (C) (ii)	The survey procedures and methodology used to identify cultural resources and a discussion of the cultural resources identified by the survey;	Survey procedures and methodology: pp. 5.3-15 to 5.3-17, §5.3.2.5.3, 5.3.2.5.4		
Appendix B (g) (2) (C) (iii)	Copies of all new and updated DPR 523(A) forms. If a cultural resource may be impacted by the project, also include the appropriate DPR 523 detail form for each such resource;	New technical report: Vol 2, Appendix 5.3B Complete copy of CHRIS literature search: Vol 2, Appendix 5.3C		
Appendix B (g) (2) (C) (iv)	A map at a scale of 1:24,000 U.S. Geological Survey quadrangle depicting the locations of all previously known and newly identified cultural resources compiled through the research required by Appendix B (g)(2)(B) and Appendix B (g)(2)(C) (ii); and	Figure: Vol 2, Appendix 5.3E		
Appendix B (g) (2) (C) (v)	The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report.	Personnel qualifications: Vol 2, Appendix 5.3D		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date	
Technical Area:	Cultural Re	sources	 Project:	Carlsbad Energy Center Project	Technical Staff:		
Project Manager:			Docket:	07-AFC-6	Technical Senior:		

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (D)	Provide a copy of your request to the Native American Heritage Commission (NAHC) for information on Native American sacred sites and lists of Native Americans interested in the project vicinity, and copies of any correspondence received from the NAHC. Notify the Native Americans on the NAHC list about the project, including a project description and map. Provide a copy of all correspondence sent to Native American individuals and groups listed by the NAHC and copies of all responses. Provide a written summary of any oral responses.	NAHC request and responses: Vol 2, Appendix 5.3A All Native American correspondence: Vol 2, Appendix 5.3A		
Appendix B (g) (2) (E)	Include in the discussion of proposed mitigation measures required by subdivision (g)(1):	Proposed mitigation by subdivision: N/A (no subdivision impacts)		
Appendix B (g) (2) (E) (i)	A discussion of measures proposed to mitigate project impacts to known cultural resources;	Proposed mitigation to known cultural resources: pp. 5.3-19 to 5.3-21, §5.3.6.1 through 5.3.6.9		
Appendix B (g) (2) (E) (ii)	A set of contingency measures proposed to mitigate potential impacts to previously unknown cultural resources and any unanticipated impacts to known cultural resources; and	Contingency measures – pp. 5.3-20 and 5.3-21, §5.3.6.3 through 5.39		
Appendix B (g) (2) (E) (iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural resources.	Educational programs: pp. 5.3-19 and 5.3-20, §5.3.56.2		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	LORS Tables: pp. 5.3-2 and 5.3-3, §5.3.2, Table 5.3-1		

Adequacy issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date	
Technical Area:	Cultural Re	sources	Project:	Carlsbad Energy Center Project	Technical Staff:		
Project Manager:			Docket:	07-AFC-6	Technical Senior:		

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) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Agencies with jurisdiction: p. 5.3-22, §5.3.8, Table 5.3-4	i	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Agency contacts: p. 5.3-22, §5.3.8, Table 5.3-4		
Appendix B (i) (3)	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.	Schedule: p. 5.3-23, §5.3.9		

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Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSH	EET Revisio	on No.	0	Date	
Technical Area: Project Manager:	Efficiency	-	Project: Docket:	Carlsbad Energy Center Proje 07-AFC-6		nnical Sta nnical Se			
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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (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.	See Section 5.0 and its subsections for each topical area.		
Appendix B (h) (4) (A)	Heat and mass balance diagrams for design conditions for each mode of operation.	Section 2.2.2, pg. 2-4, and Figure 2.2-5		
Appendix B (h) (4) (B)	Annual fuel consumption in BTUs for each mode of operation, including hot restarts and cold starts.	Section 2.3.3, pgs. 2-25 to 2-33.		
Appendix B (h) (4) (C)	Annual net electrical energy produced in MWh for each mode of operation including starts and shutdowns.	Section 2.3.3, pgs. 2-25 to 2-33.		
Appendix B (h) (4) (D)	Number of hours the plant will be operated in each design condition in each year.	Section 2.2.16, pg 2-25		
Appendix B (h) (4) (E)	If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards.	N/A		
Appendix B (h) (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.	Section 6.6, pgs. 6-8 to 6- 11.		

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Revision No. 0 Date

Technical Area: Project Manager: e

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Section 2.5, pgs 2-38 to 2- 39; and Section 2.7, pg. 2- 29. Also see each section of the AFC.		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 2.6, pg 2-39, and Section 2.7, pg 2-39. Also see each section of the AFC.		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Section 2.6, pg. 2-39. Also see each section of the AFC		
Appendix B (i) (3)	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.	See each section of the AFC.		

Adequacy Issue:	Adequate	Inadequate	DATA A	DEQUACY WORKSHEET	Revision No. 0	Date
Technical Area:	Facility Design		Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:			Docket:	07-AFC-6	Technical Senior:	

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (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.	Section 2.3; pgs 2-25 to 2- 28. Appendices 2A, 2B and 2G. Section 5.4.3; pgs 5.4- 35.4-7; Section 5.4.4, pgs. 5.4-7 to 5.4-8; Section 5.4.6, pgs. 5.4-8 to 5.4-9; Section 5.4.7 pgs, 5.4-9 to 5.4-10. Appendix 5.4A Section 5.15.3, pgs 5.15-4 to 5.15-11; Section 5.15.4, pgs. 5.15-11 to 5.15-16		
Appendix B (h) (1) (B)	A discussion of any measures proposed to improve adverse site conditions.	No measures required.		
Appendix B (h) (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	Section 2.3.1, pg. 2-26; Appendices 2A 2B and 2G; and Appendix 5.4A.		
Appendix B (h) (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:	See below		
Appendix B (h) (1) (D) (i)	The power generation system;	Sections 2.2.2, 2.2.3, and 2.2.4, pgs. 2-4 to 2-6.		
Appendix B (h) (1) (D) (ii)	The heat dissipation system;	Section 2.2.4.2, pgs 2-5 to 2-6; Section 2.2.8, pg. 2- 11.		

		ADEQUACY WORKSHEET		
Technical Area: Facility Design	Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:	Docket:	07-AFC-6	Technical Senior:	

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) (D) (iii)	The cooling water supply system, and, where applicable, pre-plant treatment procedures;	Section 2.2.7, pgs. 2-8 to 2-1. Section 2.2.91.1, pg 2-12. Section 2.3.2.4, pg 2-31. Figures 2.2-6a and 2.2-6b 2.2.7.4, Section 5.15.3.5, pgs 5.15- 9 to 5.15-11. Appendix 2F and Appendix 5.15E.		
Appendix B (h) (1) (D) (iv)	The atmospheric emission control system;	Section 2.2.2, pg. 2-4. Section 2.2.4.2, pgs. 2-5 to 2-6. Section 2.2.11, pgs 2-14 to 2-15.		
Appendix B (h) (1) (D) (v)	The waste disposal system and on-site disposal sites;	Section 2.2.9, pg. 2-13 and Section 2.210, pg. 2-14. Section 5.14-3, pgs. 5.14-5 to 5.14-7. Section 5.14-4, pgs 5.14-7 to 5.14-16.		
Appendix B (h) (1) (D) (vi)	The noise emission abatement system;	Section 2.2.4.1, pg. 2-5.		· · ·
Appendix B (h) (1) (D) (vii)	The geothermal resource conveyance and re- injection lines (if applicable);	N/A, this is a natural gas fuel only power plant.		
Appendix B (h) (1) (D) (viii)	Switchyards/transformer systems; and	Section 2.2.5, pgs 2-6 to 2- 8; Section 2.2.14, pg. 2-18. Sections 3.1 and 3.2, pgs 3-1 to 3-4.		
Appendix B (h) (1) (D) (ix)	Other significant facilities, structures, or system components proposed by the applicant.	Section 2.1, pg. 2-3 – Retiring of existing Units 1, 2 and 3 at the Encina Power Station upon commercial operations of the new CECP generating units.		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	I	Revision No.	0	Date		
Technical Area:	Geological	Hazards	Project:	Carlsbad Energy Center Project		Technical S	aff:			
Project Manager:			Docket:	07-AFC-6		Technical S	enior:			

SITING REGULATIONS		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 5.4.3, 5.4.4, 5.4.5, and 5.4.6 (pages 5.4-3 to 5.4-9)		
Appendix B (g) (17) (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities, including linear facilities.	Section 5.4.3 (pages 5.4-3 to 5.4-7)		
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 two (2) miles of the project site and along proposed facilities. Include an analysis of the likelihood of ground rupture, seismic shaking, mass wasting and slope stability, liquefaction, subsidence, tsunami runup, and expansion or collapse of soil structures at the plant site. Describe known geologic hazards along or crossing linear facilities.	Figure 5.4-1 Section 5.4.3		
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.	None found to exist in the project area, see Section 5.4.4.3. (page 5.4-8)		

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Revision No. 0 Date

Technical Area: Project Manager: Geological Hazards

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Table 5.4.1, Section 5.4.2 (pages 5.4-1 to 5.4-2)		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 5.4-3, Section 5.4.8 (page 5.4-10)		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 5.4-3, Section 5.4.8 (page 5.4-10)		
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Not applicable, see Section 5.4.9 (page 5.4-11).		

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## DATA ADEQUACY WORKSHEET

Revision No. Date 0

Technical Area: Project Manager:

late Hazardous Materials Handling

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Pgs. 2-34 through 2.38, Section 2.4		
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.	Pgs. 2-1 through 2-3, Section 2.1 Pg. 5.5-8, Section 5.5.3 Pg. 5.5-9, Section 5.5.4		
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.	Tables 5.52, 5.5-3, 5.5-4, and 5.5-5		
Appendix B (g) (10) (B)	A map at a scale of 1:24,000 depicting the location of schools, hospitals, day-care facilities, emergency response facilities and long-term health care facilities, within the area potentially affected by any release of hazardous materials.	Figure 5.5-1		
Appendix B (g) (10) (C)	A discussion of the storage and handling system for each hazardous material used or stored at the site.	Pgs. 5.5-17 through 5.5-18, Sections 5.5.4.1 and 5.5.4.2		
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.	Pgs. 5.5-18 through 5.5-20, Section 5.5.4.3 Appendix 5.5B		

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# DATA ADEQUACY WORKSHEET

Date Revision No. 0

Technical Area: Project Manager:

guate Hazardous Materials Handling

Carlsbad Energy Center Project Project: Docket: 07-AFC-6

Technical Staff: Technical Senior:

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (10) (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.	Pgs. 5.5-24, Section 5.5.6.3		
Appendix B (g) (10) (F)	A discussion of measures proposed to reduce the risk of any release of hazardous materials.	Pgs. 5.5-22 through 5.5-28, Section 5.5.6		
Appendix B (g) (10) (G)	A discussion of the fire and explosion risks associated with the project.	Pgs. 5.5-20 through 5.5-21, Section 5.5.4.4		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Pgs. 5.5-1 through 5.5-8, Section 5.5.2, Table 5.5-1		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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.	Pgs. 5.5-32, Section 5.5.8, Table 5.5-8		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Pgs. 5.5-32 to 5.5-33, Section 5.5.8, Table 5.5-8		

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Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area:	Hazardous	Materials Handling	Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:		· · · · · · · · · · · · · · · · · · ·	Docket:	07-AFC-6	Technical Senior:	

SITING	INFORMATION	AFC PAGE NUMBER AND	ADEQUATE	INFORMATION REQUIRED TO MAKE AFC CONFORM		
REGULATIONS		SECTION NUMBER	YES OR NO	WITH REGULATIONS		
Appendix B (i) (3)	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.	Pgs. 5.5-33, Section 5.5.9, Table 5.5-9				

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Land Use

## DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: te

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
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 5.6-1 and 5.6-2.		
Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed project with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agencies. The discussion shall identify the need, if any, for land use decisions by another public agency or as part of the commission's decision that would be necessary to make the project conform to adopted federal, state, regional, or local coastal plans, land use plans, or zoning ordinances. Examples of land use decisions include: general plan amendments, zoning changes, lot line adjustments, parcel mergers, subdivision maps, Agricultural Land Conservation Act contracts cancellation, and Airport Land Use Plan consistency determinations.	Subsection 5.6.7.2.1, pages 5.6-24 – 5.6-34; and Subsections 5.6.11 and 5.6.12, page 5.6-41.		
Appendix B (g) (3) (C)	A discussion of the legal status of the parcel(s) on which the project is proposed. If the proposed site consists of more than one legal parcel, describe the method and timetable for merging or otherwise combining those parcels so that the proposed project, excluding linears and temporary laydown or staging area, will be located on a single legal parcel. The merger need not occur prior to a decision on the Application but must be completed prior to the start of construction.	Subsection 1.3, page 1-5.		

Adequacy Issue:	Adequate	Inadequate		ADEQUACY WORKSHEET	Revision No.	0	Date	
Technical Area:	Land Use		 Project:	Carlsbad Energy Center Project	Technical Sta	aff:		
Project Manager:			Docket:	07-AFC-6	_ Technical Se	nior:		

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (D)	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:	Figure 5.6-3; Subsection 5.6.7.2, pages 5.6-23 – 5.6- 24; Subsection 5.6.7.3, page 5.6-35.		
Appendix B (g) (3) (D) (i)	Crop types, irrigation systems, and any special cultivation practices;	Figure 5.6-3; Subsection 5.6.7.3, page 5.6-35.		
Appendix B (g) (3) (D) (ii)	Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the California Department of Conservation; and	Subsection 5.6.7.3, page 5.6-35.		
Appendix B (g) (3) (D) (iii)	Direct, indirect, and cumulative effects on agricultural land uses. If the proposed site or related facilities are subject to an Agricultural Land Conservation contract, provide a written copy and a discussion of the status of the expiration or canceling of such contract.	Subsection 5.6.7.3, page 5.6-35.		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Table 5.6-2, pages 5.6-12 – 5.6-15.		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 5.6-8 and 5.6-9, page 5.6-41.		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date	
Technical Area:	Land Use	_	Project:	Carlsbad Energy Center Project	Technical Staff:		
Project Manager:			Docket:	07-AFC-6	Technical Senior:		

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 5.6-8, page 5.6-41.		
Appendix B (i) (3)	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 5.6-9, page 5.6-41.		

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Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area:	Noise		Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:			Docket:	07-AFC-6	Technical Senior:	

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 5.7-5 to 5.7-20 and Sections 5.7.4, 5.7.5, 5.7.6, and 5.7.7		
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 potentially impacted by the proposed project is that area where, during either construction or operation, there is a potential increase of 5 dB(A) or more, over existing background levels.	Figures 5.6-1 and 5.6-2		· · ·

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Technical Area:	Noise
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# DATA ADEQUACY WORKSHEET

Project: Carlsbad Energy Center Project Docket: 07-AFC-6 Revision No. 0 Date

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for a lesser duration at the applicant's discretion, preferably during the same 25-hour period. The results of the noise level measurements shall be reported as hourly averages in Leq (equivalent sound or noise level), Ldn (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L10, L50, and L90 values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported in units of dB(A).	Page 5.7-5 and Section 5.7.4.1		
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.	Pages 5.7-14 to 5.7-15 Sections 5.7.5.3.2 and 5.7.5.3.3		
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 5.7-11 to 5.7-13 and Sections 5.7.5.2.2 and 5.7.5.3.2		
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.	Pages 5.7-11 and 5.7-13 and Section 5.7.5.2.1, Tables 5.7-13, 5.7-14, and 5.7-15, Section 5.7.5.3.1		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date	
Technical Area:	Noise		Project:	Carlsbad Energy Center Project	Technical Staff:		
Project Manager:			Docket:	07-AFC-6	Technical Senior:		

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (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.	Page 5.7-15 and Section 5.7.5.3.5		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Page 5.7-2 and Table 5.7-1		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 5.7-2 and Table 5.7-1		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Page 5.7-20 and Table 5.7-17		

Adequacy Issue:	Adequate	Inadequate	DATA /	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area:	Noise		Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:			Docket:	07-AFC-6	Technical Senior:	

SITING		AFC PAGE NUMBER AND	ADEQUATE	INFORMATION REQUIRED TO MAKE AFC CONFORM
REGULATIONS		SECTION NUMBER	YES OR NO	WITH REGULATIONS
Appendix B (i) (3)	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 5.7-20 and Section 5.7.9		

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### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Paleontological Resources
Project Manager:

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Project: Carlsbad Energy Center Project Docket: 07-AFC-6

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. 5.8-6 to 5.8-12, §5.8.3.3; pp. 5.8-11 to 5.8- 12, §5.8.4.2; pp. 5.8-13 to 5.8-20, §5.8.6, §5.8.7; p.5.8-14, §5.8.6.1; p. 5.8- 13, §5.8.6.1, p. 5.8-18, §5.8.7.5		
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 size of the paleontological study area may vary depending on the depositional history of the region.	p. 5.8-4, §5.8.3.1; pp. 5.8-5 to 5.8-9, §5.8.3.3, 5.8.3.4.		
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. Include a discussion of sensitivity for each geologic unit identified on the most recent geologic map at a scale of 1:24,000. Provide rationale as to why the sensitivity was assigned.	pp. 5.8-9 to 5.8-11, §5.8.3.5; p. 5.8-7 to 5.9-9, §5.8.3.4; p. 5.8-10, Table 5.8-3, §5.8.3.5;		
Appendix B (g) (16) (C)	A summary of all local museums, 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.	pp. 5.8-5, §5.8.3.2;		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No.	0	Date	
Technical Area:	Paleontologic	al Resources	Project:	Carlsbad Energy Center Project	Technical Sta	aff:		
Project Manager:			Docket:	07-AFC-6	Technical Se	nior:		

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (16) (D)	Information on the specific location of known paleontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, showing occurrences of fossil finds, if known, within a one-mile radius of the project and related facilities 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, s 2501 et seq.	pp. 5.8-5 to 5.8-11, §5.8.3.3; Appendix 5.8.1; confidential Figure 5.8-2.		· ·
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.	pp. 5.8-13, §5.8.6.1.2, pp. 5.8-17 to 5.8-18, §5.8.7.4; there are no known resources; pp. 5.8-13, §5.8.6.1, pp. 5.8-16 to 5.8- 17, §5.8.7.3.		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed.	p. 5.8-2, Table 5.8-1, §5.8.2; pp. 5.8-2 to 5.8-4, §5.8.2.		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	p. 5.8-2, Table 5.8-1, §5.8.2; pp. 5.8-20, Table 5.8-4, § 5.8.8.		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	<b>r</b> <sup>6</sup>	Revision No.	0	Date	
Technical Area:	Paleontolo	gical Resources	Project:	Carlsbad Energy Center Project		Technical St	aff:		
Project Manager:			Docket:	07-AFC-6		Technical Se	enior:		

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	pp. 5.8-20, §5.8.8.		
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	NOT APPLICABLE FOR THIS RESOURCE		

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Project Overview

#### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area:

Project:

Project: Carlsbad Energy Center Project Docket: 07-AFC-6 Technical Staff: Technical Senior:

SITING REGULATIONS		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 each section of the AFC.		
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 each section of the AFC.		
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	See each section of the AFC.		
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.	See each section of the AFC. Section 1.9, pg. 1-16 and see Appendix 1B for list of preparers of the AFC.		
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 routes and facilities, water supply routes and facilities, pollution control systems, and other general characteristics.	Sections 1.1 and 1.2; pgs. 1-1 to 1-3; Section 1.3, pg. 1-5; and Section 2.2, pgs. 2-1 to 2-25.		
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessor's parcel numbers.	Section 1.3, pg. 1-5.		
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Section 1.3, pg. 1-5; and Figures 1.2-1, 1.2-2; 1.2-3.		

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Adequacy issue:	Adequate	Inadequate	D/		ADEQUACY WORKSHEET	Revision No.	0	Date	
Technical Area:	Project Over	view	Pro	oject:	Carlsbad Energy Center Project	Technical S	aff:		
			Do	cket:	07-AFC-6	Technical Se	enior:		

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Section 1.3, pg. 1-5. Figure 1.3-1.		
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.	See Appendix 1A.		
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Section 1.4, pgs. 1-5 to 1-6; and Figures 1.4-1A and 1.4-1B.		
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Section 1.5, pg. 1-6.		
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Section 1.5, pg. 1-6; and Section 3.2.1; pg. 3-2.		
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Section 1.5, pg. 1-6.		· · ·
Appendix B (b) (1)	In a section entitled, "Generation Facility Description, Design, and Operation" provide the following information:	Section 2.2, pgs. 2-3 to 2- 25.		

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### DATA ADEQUACY WORKSHEET

Revision No. Date 0

Technical Area:

Adequate Project Overview

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), (or appropriate map scale agreed to by staff) 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 1.2-1, 1.2-3, 2.1-1, and 2.2-1. Section 1.3, pg. 1-5.		
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities to establish the accuracy of the photo simulations required in Sections $(a)(1)(D)$ and $(g)(6)(F)$ ;	Figures 2.1-1, 2.2-1, and 2.2-2.		· · · · · · · · · · · · · · · · · · ·
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Section 2.2, pgs. 2-3 to 2- 25; Section 2.3, pgs. 2-25 to 2-33.		
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.	Section 1.2.2, pgs. 1-4 to 1- 5; Section 1.7, pgs 1-7 to 1- 15.		
Appendix B (b) (2)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information:	Section 3.0; pgs 3-1 to 3-3.		
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 (or appropriate map scale agreed to by staff) 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 2.1-1; 2.2-1. Figures 3.1-1, 3.1-2 and 3.2-1.		

## DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area:

Project Overview

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (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.	Figure 1.3-1.		
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights-of-way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators.	Sections 3.1 and 3.2, pgs. 3-1 to 3-3; Figures 3.1-1 and 3.2-1.		
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; and	Sections 3.1 and 3.2, pgs. 3-1 to 3-3.		
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Section 2.4, pgs 2-34 to 2- 37.		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area: Project Manager:	Public Health	- 	Project: Docket:	Carlsbad Energy Center Project 07-AFC-6	Technical Staff: Technical Senior:	

SITING REGULATIONS		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.	Existing site conditions: pp. 5.9-4 to 5.9-6 of Section 5.9.3. Construction impacts: pp. 5.9-7 to 5.9-8 of Section 5.9.4.2. Operation impacts: p. 5.9-8 to 5.9-15 of Section 5.9.4.3 through 5.9.4.8. Mitigation measures: p. 5.9-15 of Section 5.9.6.		
Appendix B (g) (9) (A)	An assessment of the potential risk to human health from the project's hazardous air emissions using the Air Resources Board Hotspots Analysis and Reporting Program (HARP) (HSC §§44360-44366) or its successor and Approved Risk Assessment Health Values. These values should include the cancer potency values and noncancer reference exposure levels approved by the Office of Environmental Health Hazard Assessment (OEHHA Guidelines, Cal-EPA 2005).	Health risk assessment: pp. 5.9-5 to 5.9-14 of Section 5.9.4.		
Appendix B (g) (9) (B)	A listing of the input data and output results, in both electronic and print formats, used to prepare the HARP health risk assessment.	HARP input and output files are on a CD, and mentioned on p. 5.9-14 at the end of Section 5.9.4.5.		
Appendix B (g) (9) (C)	Identification of available health studies through the local public health department concerning the potentially affected population(s) within a six-mile radius of the proposed power plant site related to respiratory illnesses, cancers or related diseases.	P. 5.9-5 in Section 5.9.3.		
Appendix B (g) (9) (D)	A map showing sensitive receptors within the area exposed to the substances identified in subsection $(g)(9)(A)$ .	Map of sensitive receptors: Figure 5.9-2, although none are exposed to significant health impacts.		
Appendix B (g) (9) (E)	For purposes of this section, the following definitions apply:			

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No.	0	Date
Technical Area: Project Manager:	Public Health		Project: Docket:	Carlsbad Energy Center Project 07-AFC-6	Technical Sta Technical Se		

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) (E) (i)	A sensitive receptor refers to infants and children, the elderly, and the chronically ill, and any other member of the general population who is more susceptible to the effects of the exposure than the population at large;	Figure 5.9-2, and Appendix 5.9A, Tables 5.9A-1 through 5.9A-4, Figures 5.9A-1 through 5.9A-5b.		
Appendix B (g) (9) (E) (ii)	An acute exposure is one which occurs over a time period of less than or equal to one (1) hour; and	Pp. 5.9-6 and 5.9-7 in Section 5.9.4.1.2, and pp. 5.9-12 to -13 in Section 5.9.4.5.		
Appendix B (g) (9) (E) (iii)	A chronic exposure is one which is greater than twelve (12) percent of a lifetime of seventy (70) years.	P. 5.9-7 in Section 5.9.4.1.2, and pp. 5.9-12 and 5.9-13 in Section 5.9.4.5.		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Table 5.9-1 in Section 5.9.2 on pp. 5.9-2 and 5.9-3.		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 5.9-7 in Section 5.9.7 on p. 5.9-17.		

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Adequacy Issue:	Adequate	Inadequate	I	DATA A	ADEQUACY WORKSHEET	Revision No.	0	Date
Technical Area:	Public Health			Project:	Carlsbad Energy Center Project	Technical St	aff:	
Project Manager:				Docket:	07-AFC-6	Technical Se	enior:	

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 5.9-7 in Section 5.9.7 on p. 5.9-17.		
Appendix B (i) (3)	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 5.9-8 in Section 5.9.8 on p. 5.9-17.		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No.	0	Date	
Technical Area:	Reliability	· -	Project:	Carlsbad Energy Center Project	Technical Staff	ff:		
Project Manager:			Docket:	07-AFC-6	Technical Seni	ior		

SITING REGULATIONS		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.	See Section 5.0 and its subsections on each topical area.		· ·
Appendix B (h) (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.	Section 2.2.6, pg. 2-8. Section 4.0, pgs. 4-1 to 4-4.		
Appendix B (h) (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:	Section 2.3.2.1, pg 2-28. Section 2.3.3, pgs 2-33 to 2-34.		
Appendix B (h) (3) (B) (i)	Expected overall availability factor, and annual and lifetime capacity factors;	Section 2.3.2, pgs. 2-28 to 2-33.		
Appendix B (h) (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;	Section 2.3.2, pgs. 2-28 to 2-33.		
Appendix B (h) (3) (B) (iii)	Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability;	Section 2.3.1.1.1, pg. 2-27; Section 2.2.2, pg. 2-4; Section 2.2.72, pgs. 2-10 to 2-11; Section 2.2.8, pg. 2- 11.		
Appendix B (h) (3) (B) (iv)	Special design features adopted by the applicant or resource supplier to ensure power plant reliability including equipment redundancy; and	Section 2.3.2, pgs 2-28 to 2-33.		
Appendix B (h) (3) (B) (v)	For technologies not previously installed and operated in California, the expected power plant maturation period.	N/A		

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Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No.	0	Date
Technical Area:	Reliability		Project:	Carlsbad Energy Center Project	Technical Sta	aff:	
Project Manager:			Docket:	07-AFC-6	Technical Se	nior:	

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)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Section 2.5, pgs 2-38 to 2- 39; Section 2.7 pg. 2-39. Also see each section of the AFC		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 2.6, pg. 2-39; Section 2.7, pg. 2-39. Also see each section of the AFC.		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Section 2.6, pg. 2-39. Also see each section of the AFC.		
Appendix B (i) (3)	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.	See each section of the AFC.		

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### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Socioeconomics

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		AFC PGS 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.	Pgs: 5.103 to 5.10-24, Sections: 5.10.3, 5.10.4, 5.10.5 and 5.10.7 and Section 5.10.8		
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:	Pgs 5.10-3 to 5.10-10, Section: 5.10.3		
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;	Pgs 5.10-5 to 5.10-7, Sections: 5.10.3.3, 5.10.3.4		
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	Pgs 5.10-3, Sections: 5.10.3.1, 5.10.3.2		
Appendix B (g) (7) (A) (iii)	Existing unemployment rate;	Pgs 5.10-6, Section: 5.10.3.3		
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	Pgs 5.10-11, 5.10-16, Section: 5.10.4.3.1		
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing and current vacancy rate; and	Pgs 5.10-4, Section: 5.10.3.2,		
		Pgs 5.10-17, Section: 5.10.4.3.3		

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Technical Area:

Project Manager:

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### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Socioeconomics

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Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PGS NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes for the duration of the project schedule.	Pgs 5.10-8 to 5.10-9, Section: 5.10.3.6.		
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project (note year of estimate, model, if used, and appropriate sources), including:	Pgs 5.10-10 to 5.10-23, Section: 5.10.4.		
Appendix B (g) (7) (B) (i)	An estimate of the number of workers to be employed each month by craft during construction, and for operations, an estimate of the number of permanent operations workers during a year;	Pgs 5.10-11 to 5.10-15, Section: 5.10.4.3.1. Pgs 5.10-21, Section: 5.10.4.4.1.		
Appendix B (g) (7) (B) (ii)	An estimate of the percentage of non-local workers who will relocate to the project area to work on the project;	Pgs 5.10-17 to 5.10-18, Section: 5.10.4.3.4. Pgs 5.10-21, Section: 5.10.4.4.1.		
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Pgs 5.10-16, Section: 5.10.4.3.2 Pgs 5.10-21, Section: 5.10.4.4.2.		

## DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Socioeconomics

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PGS NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	Pgs 5.10-17, Section: 5.10.4.3.3.		
		Pgs 5.10-21, Section: 5.10.4.4.3.		
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. Include response times to hospitals and for police, and emergency services. 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 operating phases;	Pgs 5.10-20 Sections: 5.10.4.3.6, 5.10.4.3.7, 5.10.4.3.8 Pgs 5.10-22 to 5.10-23, Sections: 5.10.4.4.6, 5.10.4.4.7, 5.10.4.4.8		
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	Pgs 5.10-22, Section: 5.10.4.4.6		
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and separate estimates of the total operation payroll for permanent and short-term (contract) operations employees;	Pgs 5.10-17 to 5.10-19, Section: 5.10.4.3.4 Pgs 5.10-21 to 5.10-22, Section: 5.10.4.4.4		
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project;	Pgs 5.10-20, Section: 5.10.4.3.4 Pgs 5.10-21 to 5.10-22, Section: 5.10.4.4.4		
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost (plant and equipment) of the project;	Pgs 5.10-19 to 5.10-20, Section: 5.10.4.3.5		

### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Socioeconomics

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PGS NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (x)	An estimate of sales taxes generated during construction and separately during an operational year of the project;	Pgs 5.10-19 to 5.10-20, Section: 5.10.4.3.5		
		Pgs 5.10-22, Section: 5.10.4.4.5		
Appendix B (g) (7) (B) (xi)	An estimate of property taxes generated during an operational year of the project; and	Pgs 5.10-22, Section: 5.10.4.4.5		
Appendix B (g) (7) (B) (xii)	The expected direct, indirect, and induced income and employment effects due to construction, operation, and maintenance of	Pgs 5.10-17 to 5.10-19 to 5.10-22, Section: 5.10.4.3.4		
	the project.	Pgs 5.10-21 to 5.10-22, Section: 5,10.4.4.4		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference Pgs s in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Pgs 5.10-1 to 5.10-3, Section: 5.10.2		``````````````````````````````````````
Appendix B (i) (1) (B)	Tables which identify each agency with Jurisdiction to issue applicable permits, leases, 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.	Pgs 5.10-25, Section 5.10.9 and Section 5.10.10.		

Adequate Inadequate

### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Socioeconomics

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PGS NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Pgs 5.10-25, Section: 5.10.9		
Appendix B (i) (3)	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.	Pgs 5.10-25, Section: 5.10.10		

Adequacy issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date	
Technical Area:	Soils		Project:	Carlsbad Energy Center Project	Technical Staff:		
Project Manager:			Docket:	07-AFC-6	Technical Senior	:	

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 5.11-4 to 5.11-6, Section 5.11.3; pages 5.11- 7 to 5.11-18, Sections 5.11.4, 5.11.5, 5.11.6, and 5.11.7.		
Appendix B (g) (15) (A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:	Figure 5.11.1		
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil;	Pages 5.11-5, Table 5.11-2 in Section 5.11.3.		
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 5.11-5 to 5.11-6, Section 5.11.3 and subsections 5.11.3.2, 5.11.3.3, and 5.11.3.4.		
Appendix B (g) (15) (A) (iii)	The location of any proposed fill disposal or fill procurement (borrow) sites; and	Pages 5.11-4 to 5.11-5, Section 5.11.3; page 5.11- 8, subsection 5.11.4.4.1.		
Appendix B (g) (15) (A) (iv)	The location of any contaminated soils that could be disturbed by project construction.	Page 5.11-6, subsection 5.11.3.4		
Appendix B (g) (15) (B)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:	Page 5.11-7 to 5.11-14, Section 5.11.4.		
Appendix B (g) (15) (B) (i)	The quantification of accelerated soil loss due to wind and water erosion; and	Page 5.118 to 5.1113, subsections 5.11.4.4.1 and 5.11.4.4.2		· · · · · · · · · · · · · · · · · · ·
Appendix B (g) (15) (B) (ii)	The effect of power plant emissions on surrounding soil-vegetation systems.	Page 5.11-14, subsection 5.11.4.5		

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Adequacy Issue:	Adequate	Inadequate	DATA /	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area:	Soils <sup>–</sup>		Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:			Docket:	07-AFC-6	Technical Senior:	

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)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Page 5.11-2, Table 5.11-1		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 5.11-18, Table 5.11-6		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Page 5.11-18, Table 5.11-6		
Appendix B (i) (3)	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 5.11-19, Section 5.11.9		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area:	Traffic and	Transportation	Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:			Docket:	07-AFC-6	Technical Senior:	

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 5.12-6 thru 5.12-23, Sections 5.12.3, 5.12.4, 5.12.5, 5.12.6, and 5.12.7.		
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	Figure 5.12-2		
Appendix B (g) (5) (B)	If the proposed project including any linear facility is to be located within 20,000 feet of an airport runway that is at least 3,200 feet in actual length, or 5,000 feet of a heliport (or planned or proposed airport runway or an airport runway under construction, that is the subject of a notice or proposal on file with the Federal Aviation Administration), discuss the project's compliance with the applicable sections of the current Federal Aviation Regulation Part 77 – Objects Affecting Navigable Airspace, specifically any potential to obstruct or impede air navigation generated by the project at operation; such as, a thermal plume, a visible water vapor plume, glare, electrical interference, or surface structure height. The discussion should include a map at a scale of 1:24,000 that displays the airport or airstrip runway configuration, the proposed power plant site and related facilities.	Page 5.12-1 thru 5.12-4, Section 5.12.2 Figure 5.12-3 Figure 5.12-6 (as shown on this figure, the CECP site is not within the Airport Influence Zone, Flight Activity Zone, or Runway Protection Zone – therefore operation of the CECP will not result in a thermal plume that could affect air navigation.) Section 5.13.3.2.4 Water Vapor Plume – Visual Resource Section, pg 5.13- 12.		

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# DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager:

Jate Traffic and Transportation

Carlsbad Energy Center Project Project: Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (C)	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:	Figures 5.12-3 and 5.12-5		
Appendix B (g) (5) (C) (i)	Road classification and design capacity;	Page 5.12-8 to 5.12-9, Subsection 5.12.3.2.1		
Appendix B (g) (5) (C) (ii)	Current daily average and peak traffic counts;	Page 5.12-8 thru 5.12-11, Subsections 5.12.3.2.1 and 5.12.3.2.2 Figure 5.12-4		
Appendix B (g) (5) (C) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Page 5.12-8 thru 5.12-11 Subsections 5.12.3.2.1 and 5.12.3.2.2 and Page 5.12- 16 thru 5.12.17, Subsections 5.12.4.2.3 and 5.12.4.2.4		
Appendix B (g) (5) (C) (iv)	Weight and load limitations;	Page 5.12-11 thru 5.12-12, Subsection 5.12.3.3		
Appendix B (g) (5) (C) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Page 5.12-7, Subsection 5.12.3.1		
Appendix B (g) (5) (C) (vi)	An identification of any road features affecting public safety.	Page 5.12-19, Subsection 5.12.4.4		
Appendix B (g) (5) (D)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified in subsection $(g)(5)(C)$ . Also 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 $(g)(5)(C)$ .	Page 5.12-13 thru 5.12-21, Sections 5.12.4, 5.12.5 and 5.12.6		

# DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Traffic and Transportation

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Арреndix В (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.	Page 5.12-18 thru 5.12-19, Subsection 5.12.4.3		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Page 5.12-1 thru 5.12-6, Subsection 5.12.2		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 5.12-1 thru 5.12-6, Subsection 5.12.2		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Page 5.12-24 thru 5.12-25, Subsections 5.12.8 and 5.12.9		• •

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date	
Technical Area:	Traffic and	Transportation	Project:	Carlsbad Energy Center Project	Technical Staff:		
Project Manager:			Docket:	07-AFC-6	Technical Senior:		

SITING	INFORMATION	AFC PAGE NUMBER AND	ADEQUATE	INFORMATION REQUIRED TO MAKE AFC CONFORM
REGULATIONS		SECTION NUMBER	YES OR NO	WITH REGULATIONS
Appendix B (i) (3)	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 5.12-24 thru 5.12-25, Subsection 5.12.9		

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Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No.	0
Technical Area:	Trans Line	Safety & Nuisance	Project:	Carlsbad Energy Center Project	Technical Sta	aff:
Project Manager:			Docket:	07-AFC-6	Technical Se	nior:

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 3.1, pg 3-1 Section 3.2, pgs 3-2 to 4 Section 3.3, pgs 3-4 to 3-10		
Appendix B (g) (18) (A)	The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.	Section 3.1, pgs 3-1 to 3-2 Section 3.2 pgs 3-2 to 3-4.		
Appendix B (g) (18) (B)	An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project.	Section 3.3.2, pgs 3-5 to 3- 10. Section 3.3.2.1, pg 3-5 Section 3.3.2.2, pg 3-6 Section 3.3.2.3, pgs 3-6 to 3-8 Section 3.3.2.4, pg 3-8 Section 3.3.2.5, pg 3-9 Section 3.3.4, pg 3-9 to 3- 10		
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	Section 3.3.2.1, pg 3-5 Section 3.3.2.2, pg 3-6 Section 3.3.2.3, pg 3-6 Section 3.3.2.3.1, pg 3-7 Section 3.3.2.3.2, pg 3-8		

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Section 3.3.2.4, pg 3-8

Section 3.3.2.5, p 3-9

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### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Trans Line Safety & Nuisance

Project: Carlsbad Energy Center Project Docket: 07-AFC-6 Technical Staff:

Technical Senior:

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional; state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Table 3.4-1, pg 3-10 Table 3.4-2, pg 3-11 Table 3.4-3, pg 3-12 Table 3.4-4, pg 3-12 Table 3.4-5, pg 3-13 Table 3.4-6, pg 3-13		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 3.4-7, pg 3-14		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	No contacts made with agencies during preparation of this section.		
Appendix B (i) (3)	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 permits related to transmission design construction/operations are anticipated to be required outside the authority of the CEC.		

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# DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Transmission System Design

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (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 3.1, Pgs 3-1 to 3-2. Section 3-2, pgs 3-2 to 3-4.		
Appendix B (h) (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.	Section 3.2, pgs 3-2 to 3-4.		
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and	Section 3.1, pg 3-1 Section 3.2.1, pg 3-2 Section 3.2.2, pg 3-3 Section 3.3.1, pg 3-4 Figure 3.1-1 Figure 3.1-2 Figure 3.2-2 Figure 3.2-3 Figure 3.2-4 Figure 3.2-5 Section 3.4.1, pgs 3-10 to 3-11		
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 3.1, pg3-1 Section 3.2.1, pg 3-2 Section 3.2.2, pg 3-3 Section 3.3, pg 3-4 Section 3.4, pg 3-10		

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# DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Transmission System Design

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (E)	A completed System Impact Study or signed System Impact Study Agreement with the California Independent System Operator and proof of payment. When not connecting to the California Independent System Operator controlled grid, provide the executed System Impact Study agreement and proof of payment to the interconnecting utility. If the interconnection and operation of the proposed project will likely impact an transmission system that is not controlled by the interconnecting utility (or California Independent System Operator), provide evidence of a System Impact Study or agreement and proof of payment (when applicable) with/to the impacted transmission owner or provide evidence that there are no system impacts requiring mitigation.	Section 3.2.3, pgs 3-3 to 3- 4. Appendix 3A		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Table 3.4-1, pg 3-10 Table 3.4-2, pg 3-11 Table 3.4-3, pg 3-12 Table 3.4-4, pg 3-12 Table 3.4-5, pg 3-13 Table 3.4-6, pg 3-13		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 3.4-7, pgs 3-13 to 3- 14		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No.	0	Date	
Technical Area:	Transmission	System Design	Project:	Carlsbad Energy Center Project	Technical St	aff:	-	
Project Manager:			Docket:	07-AFC-6	Technical Se	enior:		

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	No contacts made with agencies during preparation of this section.		
Appendix B (i) (3)	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 permits related to transmission system construction/operation are anticipated to be required outside the authority of the CEC.		

Adequacy Issue;	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No.	0	Date	
Technical Area:	Visual Res	ources	Project:	Carlsbad Energy Center Project	Technical St	aff:		
Project Manager:			Docket:	07-AFC-6	Technical Se	enior:		

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 5-13, pgs 5.13-1 to 5.13.30, and see Figures 5.13-1 to 5.13-12.		
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the proposed project site and the proposed routes for any project-related linear facilities. Include:	Section 5.13.2, pgs 5.13-1 to 5.13-8, and Figures 5.13-1 to 5.13-12.		
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of $1:24,000$ that depict directions from which the project would be seen, the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(C); and	See Figure 5.13.3 Also see Figure 5.13-2		
Appendix B (g) (6) (A) (ii)	Description of the existing visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities, including existing water vapor plumes, above-ground electrical transmission lines, and nighttime lighting levels in the project viewshed.	Section 5.13.2, pgs 5.13-1 to 5.13-8, and see Figures 5.13-1 to 5.13-12.		
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that would be affected by the proposed project. For projects proposed to be located within the coastal zone, the assessment should also describe how the proposed project would be sited to protect views to and along the ocean and scenic coastal areas, would minimize the alteration of natural land forms, would be visually compatible with the character of surrounding areas.	Section 5.13.2.4, pgs 15.13-4 to 15.13-7. See Section 5.13.2.5, pgs 5.13-7 to 5.13-8.		

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### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Visual Resources

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

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)	In consultation with Energy Commission staff, identify: i) any designated scenic roadways or scenic corridors and any visually sensitive areas that would be affected by the proposed project, including recreational and residential areas; and ii) the locations of the key observation points to represent the most critical viewing locations from which to conduct detailed analyses of the visual impacts of the proposed project. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. Also identify any major public roadways and trails of local importance that would be visually impacted by the project and indicate the types of travelers (e.g., local residents, recreationists, workers, commuters, etc.) and the approximate number of vehicles, bicyclists, and/or hikers per day.	<ul> <li>i) See Figure 5.13-2</li> <li>ii) See Figure 5.13-3</li> <li>Section 5.13.2.3, pgs 5.13-3 to 5.13-4.</li> <li>Section 5.13.2.4, pgs 5.13-4 to 5.13-7.</li> </ul>		
Appendix B (g) (6) (D)	A table providing the dimensions (height, length, and width, or diameter) and, proposed color(s), materials, finishes, patterns, and other proposed design characteristics of each major component visible from off the project site, including any project-related electrical transmission line and/or offsite aboveground pipelines and metering stations.	See Table 5.13-2, pg 5.13- 11. Also see Figure 2.2-2 (Section 2.0 Project Description Typical Facility Elevation)		

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### DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Visual Resources

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING		AFC PAGE NUMBER AND	ADEQUATE	INFORMATION REQUIRED TO MAKE AFC CONFORM
REGULATIONS		SECTION NUMBER	YES OR NO	WITH REGULATIONS
Appendix B (g) (6) (E)	Provide the cooling tower and heat recovery steam generator (HRSG) exhaust design parameters that affect visible plume formation. For the cooling tower, data shall include heat rejection rate, exhaust temperature, exhaust mass flow rate, liquid to gas mass flow ratio, and, if the tower is plume-abated, moisture content (percent by weight) or plume-abated fogging curve(s). The parameters shall account for a range of ambient conditions (temperature and relative humidity) and proposed operating scenarios, such as duct firing and shutting down individual cells. For the heat recovery steam generator exhausts, data shall include moisture content (percent by weight), exhaust mass flow rate, and exhaust temperature. The parameters must correspond to full-load operating conditions at specified ambient conditions, and shall account for proposed operating scenarios, such as power augmentation (i.e., evaporative coolers, inlet foggers, or steam injection) and duct firing, or proposed HRSG visible plume abatement, such as the use of an economizer bypass. For simple-cycle projects, provide analogous data for the exhaust stack(s).	See Section 2.2.8 (Project Description) pg 2-11: The Project is will be cooled by a air-cooled fin-fan coolers, therefore there will be no cooling towers. See Section 2.2.4.2 (Project Description) pg 2-5 to 2-6 – HRSG. Section 5.13.3.2.4, pg 5.13- 12 – Water Vapor Plumes.		

# DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Visual Resources

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

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) (F)	Provide: i) full-page color photographic reproductions of the existing site, and ii) full-page color simulations of the proposed project at life-size scale when the picture is held 10 inches from the viewer's eyes, including any project-related electrical transmission lines, in the existing setting from each key observation point. If any landscaping is proposed to comply with zoning requirements or to mitigate visual impacts, include the landscaping in simulation(s) representing sensitive area views, depicting the landscaping five years after installation; and estimate the expected time until maturity is reached.	Section 5.13.3.3, pgs 5.13- 12 to 5.13-15, and see Figures 5.13-6 through 5.13-12. Section 5.13.3.2.2, pg 5.13- 11 regarding existing landscaped berm.		
Appendix B (g) (6) (G)	An assessment of the visual impacts of the project, including light, glare, and any modeling of visible plumes. Include a description of the method and identify any computer model used to assess the impacts. Provide an estimate of the expected frequency and dimensions (height, length, and width) of the visible cooling tower and/or exhaust stack plumes. Provide the supporting assumptions, meteorological data, operating parameters, and calculations used.	Section 5.13.3.2, pgs 5.13- 10 to 5.13-12. Section 5.13.3.2.3 – Lighting, pgs 5.13-11 to 5.13-12. Section 5.13.3.2.4 – Water Vapor Plumes, pg 5.13-12.		
Appendix B (g) (6) (H)	If any landscaping is proposed to reduce the visual impacts of the project, provide a conceptual landscaping plan at a 1:40 scale (1"=40'). Include information on the type of plant species proposed, their size, quantity, and spacing at planting, expected heights at 5 years and maturity, and expected growth rates.	N/A - See Section 5.13.3.2.2, pg 5.13-11.		

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# DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Visual Resources

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Section 5.13.7, pgs 5.13-20 to 5.13-30. Table 5.13-4, pg 5.13-20 Table 5.13-4, pg 5.13-22 Table 5.13-5, pg 5.13-23 Table 5.13-6, pgs 5.13-23 to 5.13-25 Table 5.13-7, pgs 5.13-25 to 5.13-26 Table 5.13-8, pg 5.13-27 Table 5.13-9, pgs 5.13-28 to 5-13-29 Table 5.13-10, pgs 5.13-29 to 5.13-30		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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.	See Section 5.6.11 – Land Use for Agency Contacts and Agencies with jurisdiction for the Amendment to the Specific Plan and Amendment to the Encina Power Station Precise Development Plan, Section 5.6.11, pg 5.6-41. These also apply to Visual Resources.		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	See Section 5.6.11 – Land Use for Agency Contacts and Agencies with jurisdiction for the Amendment to the Specific Plan and Amendment to the Encina Power Station Precise Development Plan, Section 5.6.11, pg 5.6-41. These also apply to Visual Resources.		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date	
Technical Area:	Visual Reso	urces	Project:	Carlsbad Energy Center Project	Technical Staff:		
Project Manager:			Docket:	07-AFC-6	Technical Senio	r:	

SITING	INFORMATION	AFC PAGE NUMBER AND	ADEQUATE	INFORMATION REQUIRED TO MAKE AFC CONFORM
REGULATIONS		SECTION NUMBER	YES OR NO	WITH REGULATIONS
Appendix B (i) (3)	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.	See Section 5.6.11 – Land Use for Agency Contacts and Agencies with jurisdiction for the Amendment to the Specific Plan and Amendment to the Encina Power Station Precise Development Plan, Section 5.6.11, pg 5.6-41. These also apply to Visual Resources.		

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#### DATA ADEQUACY WORKSHEET

Date Revision No. 0

Technical Area: Project Manager: Waste Management

Carlsbad Energy Center Project Project: Docket: 07-AFC-6

SITING REGULATIONS		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	Pgs. 2-3 through 2-13 and 2-16 to 2-18, Sections 2.2.2, 2.2.3, 2.2.4, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.2.9, and 2.2.13,		
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Pgs. 2-34 through 2-38, Section 2.4 Pg. 5.14-16, Section 5.14.4.4.5		
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.	Pgs. 5.14-5 to 5.14-7, Section 5.14-3 Pgs. 5.14-18 to 5.14-19, Sections 5.14.6 and 5.14.7		
Appendix B (g) (12) (A)	A Phase I Environmental Site Assessment (ESA) 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. The Phase I ESA shall have been completed no earlier than one year prior to the filing of the AFC.	Pgs. 5.14-6 to 5.14-7, Section 5.14.3.1.1 Appendix 5.14A		

## DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Waste Management

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Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (12) (B)	A description of each waste stream estimated to be generated during project construction and operation, including origin, hazardous or nonhazardous classification pursuant to Title 22, California Code of Regulations, § 66261.20 et seq., chemical composition, estimated annual weight or volume generated, and estimated frequency of generation.	Pgs. 5.14-7 to 5.14-8, Section 5.14.4.1.1 Pg. 5.14-8, Sections 5.14.4.1.2 and 5.14.4.1.3 Table 5.14-2 Pgs. 5.14-10 to 5.14.12, Section 5.14.4.2 Table 5.14-3		
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.	Pgs. 5.14-12 to 5.14-13, Section 5.14.4.3 Table 5.14-4		
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.	Pg. 5.14-14, Section 5.14.4.4		
Appendix B (h) (1) (B)	A discussion of any measures proposed to improve adverse site conditions.	NA		
Appendix B (h) (1) (D) (v)	The waste disposal system and on-site disposal sites;	NA		

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Revision No. 0 Date

Technical Area: Project Manager: Waste Management

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

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)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Pgs. 5.14-1 to 5.14-3, Section 5.14-2 Table 5.14- 1		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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.	Pgs. 5.14-19, Section 5.14- 8, Table 5.14-5		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Pgs. 5.14-19 to 5.14-20, Section 5.14-8, Table 5.14- 5		
Appendix B (i) (3)	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. 5.14-20, Section 5.14- 9, Table 5.14-6		

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Revision No. 0 Date

Technical Area: Project Manager: Water Resources

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS		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 5.15-4 to 5.15-11 Section 5.15.3 Page 5.15-11 to 5.15.15 Section 5.15.4 Page 5.15-16 Section 5.15.5 Page 5.15-16 to 5.15-18 Section 5.15.6 and 5.15.7		
Appendix B (g) (14) (A)	All the information required to apply for the following permits, if applicable, including:			
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; National Pollutant Discharge Elimination System Permit; and/or a Section 401 Certification or Waiver from the appropriate Regional Water Quality Control Board (RWQCB);	Page 5.15-20 Section 5.15- 10		
Appendix B (g) (14) (A) (ii)	Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;	Page 5.15-20 Section 5.15.10		
Appendix B (g) (14) (A) (iii)	Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	N/A		
Appendix B (g) (14) (A) (iv)	Underground Injection Control Permit(s) from the U.S. Environmental Protection Agency, California Division of Oil and Gas, and RWQCB.	N/A		
Appendix B (g) (14) (B)	A detailed description of the hydrologic setting of the project. The information shall include a narrative discussion and on maps at a scale of 1:24,000 (or appropriate scale approved by staff), describing the chemical and physical characteristics of the following nearby water bodies that may be affected by the proposed project:	Page 5.15-4 to 5.15-5 Section 5.15.3.1 ; Figure 5.15-1		
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Page 5.15-6 Section 5.15.3.2.1; Figure 5.15-2		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No.	0	Date	
Technical Area:	Water Resource	es	Project:	Carlsbad Energy Center Project	Technical Sta	aff:		
Project Manager:			Docket:	07-AFC-6	Technical Se	nior:		

SITING REGULATIONS		AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (B) (ii)	Surface water bodies;	Page 5.15-5 to Section 5.15.3.1.1; Figure 5.15-1		
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;	Page 5.15-6 to 5.15-7 Section 5.15.3.2.2 and 5.153.3; Figure 5.15-3		
Appendix B (g) (14) (B) (iv)	Flood control facilities (existing and proposed); and	N/A		
Appendix B (g) (14) (B) (v)	Groundwater wells within ½ mile if the project will include pumping.	N/A		
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	See below		
Appendix B (g) (14) (C) (i)	Source(s) of the primary and back-up water supplies and the rationale for their selection;	Page 5.15-9 Section 5.15.3.5.1		
Appendix B (g) (14) (C) (ii)	The expected physical and chemical characteristics of the source and discharge water(s) including identification of both organic and inorganic constituents before and after any project-related treatment. For source waters with seasonal variation, provide seasonal ranges of the expected physical and chemical characteristics. Provide copies of background material used to create this description (e.g., laboratory analysis);	Page 5.15-14 to 5.15-15 Section 5.15.4.4		
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;	Page 5.15-9 to 5.15-11 Section 5.15.3.5.2 and 5.15.3.5.3 See Section 2.0 for water balance diagrams (Figures 2.2-6a and 2.2-6b).		

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Adequacy issue:	Adequate	Inadequate	DA		ADEQUACY WORKSHEET	Rev	ision No.	0	Date	
Technical Area:	Water Resour	ces	Pro	oject:	Carlsbad Energy Center Project	T	echnical S	staff:		
Project Manager:			Doc	cket:	07-AFC-6	T	echnical S	Senior:		

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (iv)	A detailed description of all facilities to be used in water conveyance (from primary source to the power plant site), water treatment, and wastewater discharge. Include a water mass balance diagram;	Page 5.15-9 to 5.15-11 Section 5.15.3.5 to 5.15.3.6.2 See Section 2.0 for the water balance diagrams (Figures 2.2-6a and 2.2- 6b).		
Appendix B (g) (14) (C) (v)	For all water supplies intended for industrial uses to be provided from public or private water purveyors, a letter of intent or will-serve letter indicating that the purveyor is willing to serve the project, has adequate supplies available for the life of the project, and any conditions or restrictions under which water will be provided. In the event that a will-serve letter or letter of intent can not be provided, identify the most likely water purveyor and discuss the necessary assurances from the water purveyor to serve the project;	See the "request for will serve letter" in Appendix 5.15A		
Appendix B (g) (14) (C) (vi)	For all water supplied which necessitates transfers and/or exchanges at any point, identify all parties and contracts/agreements involved, the primary source for the transfer and/or exchange water (e.g., surface water, groundwater), and provide the status of all appropriate agencies' approvals for the proposed use, environmental impact analysis on the specific transfers and/or exchanges required to obtain the proposed supplies, a copy of any agency regulations that govern the use of the water, and an explanation of how the project complies with the agency regulation(s);	N/A		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Rev	i <b>sion No</b> .	0	Date	
Technical Area;	Water Resou	irces	Project:	Carlsbad Energy Center Project	Te	echnical S	taff:		
Project Manager:			Docket:	07-AFC-6	Τθ	echnical S	enior:		 

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (vii)	Provide water mass balance and heat balance diagrams for both average and maximum flows that include all process and/or ancillary water supplies and wastewater streams. Highlight any water conservation measures on the diagram and the amount that they reduce water demand; and	See Section 2.0 for the water balance diagrams (Figures 2.2-6a and 2.2-6b) and . heat balance diagram (Figure 2.2-5).		
Appendix B (g) (14) (C) (viii)	For all projects which have a discharge, provide a copy of the will-serve letter, permit or contract with the public or private entity that will be accepting the wastewater and contact storm water from the project. The letter, permit or contract, if possible, shall identify the discharge volumes and the chemical or physical characteristics under which the wastewater and contact storm water will be accepted.	See the "request for will serve letter" in Appendix 5,15A		
	In the event that a will-serve letter, permit, or contract cannot be provided, identify the most likely wastewater/storm water entity and discuss why the applicant was unable to secure the necessary assurances to serve the project's wastewater/storm water needs. Also, discuss the term of the wastewater service to the project, whether the wastewater entity has adequate permit capacity for the volume of wastewater from the project and has adequate permit levels for the chemical/physical characteristics of the project's wastewater and storm water for the life of the project, and any issues or conditions/restrictions the wastewater entity may impose on the project.			
Appendix B (g) (14) (D)	Identify all project elements associated with stormwater drainage, including a description of the following:	See below		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No.	0	Date	
Technical Area;	Water Resource	es	Project:	Carlsbad Energy Center Project	Technical S	taff:	-	
Project Manager:			Docket:	07-AFC-6	Technical S	enior:		

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (D) (i)	Monthly and/or seasonal precipitation and stormwater runoff and drainage patterns for the proposed site and surrounding area that may be affected by the project's construction and operation;	Page 5.15-8, Section 5.15.3.4		
Appendix B (g) (14) (D) (ii)	Drainage facilities and the design criteria used for the plant site and ancillary facilities, including but not limited to capacity of designed system, design storm, and estimated runoff;	Page 5.15-12, Section 5.15.4.1		
Appendix B (g) (14) (D) (iii)	All assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post construction; and	Refer to Appendix 5.15B		
Appendix B (g) (14) (D) (iv)	A copy of applicable regional and local requirements regulating the drainage systems, and a discussion of how the project's drainage design complies with these requirements.	Page 5.15-12 Section 5.15.4.1 for description.		
Appendix B (g) (14) (E)	An impacts analysis of the proposed project on water resources and a discussion of conformance with water-related LORS and policy. This discussion shall include:	See below		
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source, including, but not limited to, water availability for other uses during construction or after the power plant begins operation, consistency of the water use with applicable RWQCB basin plans or other applicable resource management plans, and any changes in the physical or chemical conditions of existing water supplies as a result of water use by the power plant;	Page 5.15-9 to 5.15-10 Section 5.15.3.5.2 Page 5.15-14 to 5.15-15 Section 5.15.4.4		

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Revision No. 0 Date

Technical Area: Project Manager: Water Resources

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (E) (ii)	If the project will pump groundwater, an estimation of aquifer drawdown based on a computer modeling study shall be conducted by a professional geologist and include the estimated drawdown on neighboring wells within 0.5 mile of the proposed well(s), any effects on the migration of groundwater contaminants, and the likelihood of any changes in existing physical or chemical conditions of groundwater resources shall be provided;	N/A		
Appendix B (g) (14) (iii)	The effects of construction activities and plant operation on water quality and to what extent these effects could be mitigated by best management practices;	Page 5.15-13 to 5.15-14 Section 5.15.4.2 and 5.15.4.3		
Appendix B (g) (14) (iv)	If not using a zero liquid discharge project design for cooling and process waters, include the effects of the proposed wastewater disposal method on receiving waters, the feasibility of using pre-treatment techniques to reduce impacts, and beneficial uses of the receiving waters. Include an explanation why the zero liquid discharge process is "environmentally undesirable," or "economically unsound;"	Page 5.15-11, Section 5.15.3.6.1 and Appendix 5.15E		
Appendix B (g) (14) (v)	If using fresh water, include a discussion of the cumulative impacts, alternative water supply sources and alternative cooling technologies considered as part of the project design. Include an explanation of why alternative water supplies and alternative cooling are "environmentally undesirable," or "economically unsound;	N/A		
Appendix B (g) (14) (vi)	The effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones; and	Page 5.15-15 Section 5.15.4.6		

Adequacy Issue:	Adequate	Inadequate		ADEQUACY WORKSHEET	Revision No.	0	Date	
Technical Area:	Water Reso	urces	 Project:	Carlsbad Energy Center Project	Technical St	aff:		
Project Manager:			Docket:	07-AFC-6	Technical Se	enior:		

SITING REGULATIONS	INFORMATION	INFORMATION AFC PAGE NUMBER AND ADEQUA SECTION NUMBER YES OR		
Appendix B (g) (14) (vii)All assumptions, evidence, references, and calculations used in the analysis to assess these effects.		Page 5.15-15 Section 5.15.4.6		
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Page 5.15-1 to 5.15-4 Section 5.15.2 (see Table 5.15-1).		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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 5.15-20, Section 5.15.10. See Table 5.15-7.		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Page 5.15-19, Section 5.15.9. See Table 5.15-6		
Appendix B (i) (3)	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 5.15-20, Section 5.15.10. See Table 5.15-7.		

Adequacy Issue:	Adequate	Inadequate	DATA	ADEQUACY WORKSHEET	Revision No. 0	Date
Technical Area:	Worker Safety	,	Project:	Carlsbad Energy Center Project	Technical Staff:	
Project Manager:			Docket:	07-AFC-6	Technical Senior:	

SITING REGULATIONS	INFORMATION	INFORMATION AFC PAGE NUMBER AND ADEQUAT SECTION NUMBER YES OR N		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.	Pg. 5.16-6 – Section 5.16.4.2		
Appendix B (g) (11) (A)	A description of the safety training programs which will be required for construction and operation personnel.	Pgs. 5.16-10 to 5.16-18– Section 5.16.4.3		
Appendix B (g) (11) (B)	A complete description of the fuel handling system and the fire suppression system.	Pg. 2-8 – Section 2.2.6 Pg. 2-15 – Section 2.2.12		
Appendix B (g) (11) (C)	Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows:			
	Construction Health and Safety Program: * Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509);	Pg. 5.16-10 – Section 5.16.4.3.1		
	<ul> <li>Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920);</li> </ul>	Pg. 5.16-10 – Section 5.16.4.3.1		
	* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522)	Pg. 5.16-11 – Section 5.16.4.3.1		
	Operation Health and Safety Program: * Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203);	Pg. 5.16-14 Section 5.16.4.3.2		
	<ul> <li>Fire Prevention Plan (8 Cal. Code Regs., § 3221);</li> </ul>	Pg. 5.16-14 – Section 5.16.4.3.2		
	<ul> <li>Emergency Action Plan (8 Cal. Code Regs., § 3220);</li> </ul>	Pg. 5.16-11 – Section 5.16.4.3.1 and Pg. 5.16-14 – Section 5.16.4.3.2		
	Personal Protective Equipment Program (8 Cal. Code Regs., §§ 3401-3411).	Pg. 5.16-15 ~ Section 5.16.4.3.2		

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# DATA ADEQUACY WORKSHEET

Revision No. 0 Date

Technical Area: Project Manager: Worker Safety

Project: Carlsbad Energy Center Project Docket: 07-AFC-6

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)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with 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; and	Pgs. 5.16-1 to 5.16-5 – Section 5.16-2 (Table 5.16- 1)		
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, 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.	Pg. 5-16-24 – Section 5.16- 8 (Table 5.16-7)		
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Pg. 5-16-23 – Section 5.16- 7 (Table 5.16-6)		
Appendix B (i) (3)	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. 5-16-24 – Section 5.16- 8 (Table 5.16-7)	1	