

Memorandum

Date: December 21, 2006
Telephone: (916) 654-4996

To: Jackalyne Pfannenstiel, Chairman
James D. Boyd, Vice Chair
Arthur H. Rosenfeld, Ph.D., Commissioner
John L. Geesman, Commissioner
Jeffrey Byron, Commissioner

From: California Energy Commission – **B. B. Blevins**
1516 Ninth Street
Sacramento, CA 95814-5512
Executive Director



DOCKET 06-AFC-8	
DATE	DEC 21 2006
RECD.	DEC 21 2006

Subject: **REVISED DATA ADEQUACY RECOMMENDATION FOR BULLARD ENERGY CENTER, (06-AFC-8)**

Staff's December 5, 2006 initial data adequacy review of the Bullard Energy Center Application for Certification (AFC) determined that it did not meet all the requirements listed in Title 20, section 1704, and Division 2, Chapter 5, Appendix B of the California Code of Regulations for the 12-month process. Specifically, the AFC was deficient in 11 of 23 areas: Air Quality, Alternatives, Biological Resources, Land Use, Project Overview, Reliability, Socioeconomics, Soils, Transmission System Engineering, Visual Resources and Water Resources. On December 13, 2006, Bullard Energy LLC (applicant) submitted draft supplemental material to address the deficiencies. Staff has reviewed the draft supplemental information and determined that the AFC now meets the above-listed requirements in all 23 technical disciplines. The applicant will file the official supplemental information for docketing prior to the January 3, 2007 Business Meeting.

Attached is a summary table and revised data adequacy worksheets for the 11 technical disciplines previously determined to be data inadequate, reflecting that the supplemental information submitted by the applicant makes the AFC adequate.

On November 6, 2006, Bullard Energy Center, LLC, submitted an Application for Certification (AFC) for the proposed Bullard Energy Center (BEC). Bullard proposes to build a nominal 200 megawatt (MW) natural gas-fired simple-cycle power plant in the City of Fresno. The proposed project consists of two GE LMS100 natural gas-fired combustion turbine generators (CTG) and associated equipment. A new 230 kV looping substation will be constructed on-site, tying into the east side of the existing PG&E Herndon-Kearney 230 kV line. The project is designed as a peaking facility to meet electric generation load during periods of high demand.

Subsequent to staff's original data adequacy recommendation, the County of Fresno submitted comments regarding hazardous materials management requirements. Additionally, the San Joaquin Valley Air Pollution Control District sent a letter to the Energy Commission on November 22, 2006 that deemed the applicant's Authority to Construct Application as complete and sufficient.

Commissioners
December 21, 2006
Page 2 of 2

At the Energy Commission's Business Meeting on January 3, 2007, I will recommend that the Energy Commission accept the Bullard Energy Center AFC with the supplemental information as data adequate, and request that a Committee be appointed.

If you have any questions, please call Mary Dyas, staff's Project Manager, at (916) 651-8891.

Attachments

**ATTACHMENT A
OVERVIEW OF ENERGY COMMISSION STAFF'S
REVISED DATA ADEQUACY DETERMINATION
BULLARD ENERGY CENTER
06-AFC-8**

TECHNICAL AREA	ATTACHMENT B PAGE No.	ADEQUATE ?
AIR QUALITY.....	1	YES
ALTERNATIVES	7	YES
BIOLOGICAL RESOURCES	8	YES
LAND USE	13	YES
PROJECT OVERVIEW	17	YES
RELIABILITY	21	YES
SOCIOECONOMICS.....	24	YES
SOILS.....	31	YES
TRANSMISSION SYSTEM ENG.....	34	YES
VISUAL RESOURCES.....	37	YES
WATER RESOURCES.....	40	YES

ATTACHMENT B

**ENERGY COMMISSION STAFF'S
Data Adequacy Determination
Revised to Reflect AFC Supplement**

**BULLARD ENERGY CENTER
06-AFC-8**

December 21, 2006

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Air Quality

Project: Bullard Energy Center

Technical Staff: William Walters

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 3.4.9 page 3-24 to 3-25 Section 5.2 page 5.2-1 to 5.2-54	Yes	
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	<u>SJVAPCD completeness letter dated November 22, 2006</u>	Yes	
Appendix B (g) (8) (B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	Section 3.4.1 page 3-5 Section 3.4.4.2 page 3-8 Section 5.2.2.2 page 5.2-16 Appendix I, Attachment C Air Quality and Public Health Modeling Files DVD <u>Data Adequacy Supplement Page AQ-1</u>	No <u>Yes</u>	Please provide the heating value and chemical characteristics of the proposed gas turbine natural gas fuel.
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 5.2.4 page 5.2-34 to 5.2-37 Section 5.2.5.10 page 5.2-44 and 5.2-45 Appendix I Attachment B	Yes	
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Section 3.4.7.3 Appendix I, Table IC-4	Yes	

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Appendix B (g) (8) (E)	The emission rates of criteria pollutants from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all secondary emission sources.	Section 5.2.2.2 Page 5.2-13 to 5.2-19 Appendix I, Attachment C	Yes	
Appendix B (g) (8) (F)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Section 5.2.2.2 page 5.2-14 Table 5.2-13 page 5.2-16 Table 5.2-14 page 5.2-17	Yes	
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Section 5.2.1.2 page 5.2-3 to 5.2-10 and Table 5.2-2 to 5.2-8	Yes	
Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.	Section 5.2.2.3 page 5.2-21 and 5.2-22 Air Quality and Public Health Modeling Files DVD	Yes	

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Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995), which is incorporated by reference in its entirety.)	N/A	N/A	
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Section 5.2.2.3 page 5.2-21 and 5.2-22 Appendix I, Attachment A Air Quality and Public Health Modeling Files DVD	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:		---	
Appendix B (g) (8) (I) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM ₁₀) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO _x), sulfur dioxide (SO ₂), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM ₁₀)] from construction-related equipment;	Section 5.2.2.4 page 5.2-31 Table 5.2-18 page 5.2-29 Air Quality and Public Health Modeling Files DVD	Yes	

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert criteria pollutant (NO _x , SO ₂ , CO and PM ₁₀) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions; and	Section 5.2.2.4 page 5.2-31 to 5.2-33 and Table 5.2-16 to 5.2-18 Air Quality and Public Health Modeling Files DVD	Yes	
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard.	Section 5.2.3 page 5.2-33 and 5.2-34 Appendix I Attachment D	Yes	
Appendix B (g) (8) (J)	If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information:		---	
Appendix B (g) (8) (J) (i)	The quantity of offsets needed;	Section 5.2.4, Table 5.2-21 page 5.2-35 and 5.2-36	Yes	

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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; and	Section 5.2.4, Table 5.2-22 page 5.2-37 <u>Data Adequacy Supplement Page AQ-2, AQ-3</u>	No <u>Yes</u>	Please provide the location of each of the proposed emission reduction credit sources.
Appendix B (g) (8) (J) (iii)	Method of emission reduction.	Section 5.2.4, Table 5.2-22 page 5.2-37	Yes	
Appendix B (g) (8) (K)	A topographic map containing contour and elevation data, at a scale of 1:24,000, showing the area within 6 miles of the power plant site.	Figure 5.2-1	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 5.2-28 page 5.2-49 and 5.2-50 Section 5.2.5 page 5.2-38 to 5.2-48	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 5.2-28 page 5.2-49 and 5.2-50	Yes	

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Project: Bullard Energy Center

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Project Manager: Mary Dyas

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.2.5 page 5.2-38 to 5.2-48	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 5.2.6, Table 5.2-29 page 5.2-51	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.2.7 page 5.2-51	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Alternatives

Project: Bullard Energy Center

Technical Staff: Mary Dyas

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (D)	A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant.	Sections 4.1 to 4.7, pages 4-1 thru 4-3; Section 2.0, pages 2-1 thru 2-2	Yes	
Appendix B (f) (1)	A discussion of the range of reasonable alternatives to the project, or to the location of the project, including the no project alternative, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project. 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.	Sections 4.1 to 4.7, pages 4-1 thru 4-3,	Yes	
Appendix B (f) (2)	An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1).	<u>Data Adequacy Response, page ALT-1</u>	No <u>Yes</u>	Please provide an evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1)

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Mary Dyas

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Revision No. 1 Date 12/21/2006
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 Technical Senior: Rick York

Project: Bullard Energy Center
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Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Existing Site Conditions: Sec. 5.6.1, pg. 5.6-1 Direct, Indirect, Cumulative Impacts: Sec. 5.6.2, pgs. 5.6-8 to 5.6-14; Sec. 5.6.2.4, pgs. 5.6-12 to 5.6-14 Mitigation Measures and Monitoring: Sec. 5.6.3, pg. 5.6-14	Yes Yes Yes	
Appendix B (g) (13) (A)	A regional overview and discussion of biological resources, with particular attention to sensitive biological resources near the project, and a map at a scale of 1:100,000 (or some other suitable scale) showing their location in relation to the project.	Sensitive Species Discussion: Sec. 5.6.1.5, pgs. 5.6-5 to 5.6-8 Maps: Figs. 5.6-1 and 5.6-2	Yes Yes	
Appendix B (g) (13) (B)	A discussion and detailed maps at a scale of 1:6,000, of the biological resources at the site of the proposed project and related facilities, and in areas adjacent to them, out to a mile from the site and 1000 feet from the outer edge of linear facility corridors. Include a list of the species actually observed and those with a potential to occur. The discussion and maps shall address the distribution of community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and the presence of sensitive biological resources.	Maps: Figs. 5.6-1 and 5.6-2 Species List: Table 5.6-2, pgs. 5.6-3 to 5.6-4 Sensitive Species List: Table 5.6-1, pg. 5.6-2	Yes Yes Yes	

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 Technical Area: Biological Resources
 Project Manager: Mary Dyas

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Project: Bullard Energy Center
 Docket: 06-AFC-8

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (13) (C)	A description of all studies and surveys used to provide biological information about the project site, including seasonal surveys and copies of the California Department of Fish and Game's Natural Diversity Data Base Survey Forms, "California Native Species Field Survey Forms", and "California Natural Community Field Survey Forms", completed by the applicant. Include the dates and duration of the studies, methods used to complete the studies, and the names and qualifications of individuals conducting the studies.	Survey Descriptions and Results: Sec. 5.6.1.1, pgs. 5.6-1 to 5.6-2; Sec. 5.6.1.5, pg. 5.6-5 Qualifications: Sec. 5.6.1.1 <u>Data Adequacy Responses pages BIO-1 thru BIO-5.</u> CNDDDB Field Survey Forms: Appendix N	Yes No <u>Yes</u> Yes	Provide a resume for the biologist who conducted the biological surveys.
Appendix B (g) (13) (D)	A discussion of all permanent and temporary impacts to biological resources from site preparation, construction activities, and plant operation. Discussion of impacts must consider impacts from cooling tower drift, and from the use and discharge of water during construction and operation. For facilities which use once-through cooling or take or discharge water directly from or to natural sources, discuss impacts resulting from entrainment, impingement, thermal discharge, effluent chemicals, type of pump (if applicable), temperature, volume and rate of flow at intake and discharge location, and plume configuration in receiving water.	Discussion of Permanent and Temporary Impacts: Sec. 5.6.2, pgs. 5.6-8 to 5.6-14 Cooling Tower Drift Analysis: Sec. 5.6.2.1, pg. 5.6-10 to 5.6-11. Use and Discharge of Water: <u>Data Adequacy Responses page BIO-6</u>	Yes Yes No <u>Yes</u>	Provide a discussion of potential impacts from the use and discharge of water during construction and operation.
Appendix B (g) (13) (E)	A discussion of the following:	----	---	
Appendix B (g) (13) (E) (i)	All measures proposed to avoid and/or reduce any adverse impacts;	Mitigation Measures: Sec. 5.6.3 and 5.6.4, pg. 5.6-14	Yes	

Adequacy Issue: Adequate Inadequate
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Appendix B (g) (13) (E) (ii)	All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and	Mitigation Measures: Sec. 5.6.3 and 5.6.4, pg. 5.6-14	Yes	
Appendix B (g) (13) (E) (iii)	Any educational programs proposed to enhance employee awareness in order to protect biological resources.	WEAP Program: Sec. 5.6.3, pg. 5.6-14	Yes	
Appendix B (g) (13) (F)	A discussion of compliance and monitoring programs proposed to ensure the effectiveness of mitigation measures incorporated into the project.	Mitigation Measures: Sec. 5.6.3 and 5.6.4, pg. 5.6-14	Yes	
Appendix B (g) (13) (G)	A discussion of native fish and wildlife species of commercial and/or recreational value that could be impacted by the project.	Commercial/Recreational Species: <u>Data Adequacy Responses page BIO-7</u>	No Yes	Provide a discussion of whether or not any native fish and wildlife species with commercial or recreational value exist in the project region and whether they will be affected.
Appendix B (g) (13) (H)	For purposes of this section, sensitive biological resources are one of the following:	----	---	
Appendix B (g) (13) (H) (i)	Species listed under state or federal Endangered Species Acts;	State or Federally Listed Species: Sec. 5.6.1.5, pgs. 5.6-5 to 5.6-8	Yes	
Appendix B (g) (13) (H) (ii)	Resources defined in sections 1702 (q) and (v) of Title 20 of the California Code of Regulations; and	State or Federally Listed Species: Sec. 5.6.1.5, pgs. 5.6-5 to 5.6-8	Yes	
Appendix B (g) (13) (H) (iii)	Species or habitats identified by legislative acts as requiring protection.	State or Federally Listed Species: Sec. 5.6.1.3, pgs. 5.6-4 to 5.6-5; Sec. 5.6.1.5, pgs. 5.6-5 to 5.6-8	Yes	

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 Technical Area: Biological Resources
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Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	LORS Compliance: Table 5.6-4, pgs. 5.6-15 to 5.6-16; Sec. 5.6.5.0, pgs. 5.6-16 to 5.6-19	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Administrative Agency Contacts: Table 5.6-4, pgs. 5.6-15 to 5.6-16	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	LORS Compliance: Sec. 5.6.5, pg. 5.6-14	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Administrative Agency Contacts: Sec. 5.6.5.4, pg. 5.6-19 <u>Data Adequacy Responses page BIO-8</u>	No <u>Yes</u>	Consultations with the California Department of Fish and Game, U.S. Fish and Wildlife Service, and U.S. Army Corps of Engineers may be needed regarding potential effects of the proposed project on state and federally protected species and wetlands. Include information on who was contacted at each agency and their contact information.

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Permit Schedule: Sec. 5.6.5.5, pg. 5.6-19	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Land Use

Project: Bullard Energy Center

Technical Staff: Amanda Stennick

Project Manager: Mary Dyas

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Technical Senior: Dale Edwards

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Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 5.9.1.2, 5.9.2.1, and 5.9.2.3	Yes	
Appendix B (g) (3) (A)	A discussion of existing land uses and current zoning at the site, land uses and land use patterns within one mile of the proposed site and within one-quarter mile of any project-related linear facilities. Include:	Sections 5.9.1.3 and 5.9.1.3.1 Tables 5.9-1, -2, -3 Figures 5.9-2, -3	Yes	
Appendix B (g) (3) (A) (i)	An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;	Figures 5.9-3, -4 Table 5.9-1, -2, -3	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any trends in recent zoning changes and potential future land use development;	Section 5.9.1.5 Table 5.9-4	Yes	
Appendix B (g) (3) (A) (iii)	Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and	Section 5.9.1.5 Table 5.9-4	Yes	

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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 5.9-1, -2, -3	Yes	
Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed facilities with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agency. The discussion shall identify the need, if any, for variances or any measures that would be necessary to make the proposal conform with permitted land uses	Sections 5.9.1.3, 5.9.2.1, 5.9.4.3 Table 5.9-5	Yes	
Appendix B (g) (15) (B)	A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:	Figure 5.9-4	Yes	
Appendix B (g) (15) (B) (i)	Crop types, irrigation systems, and any special cultivation practices; and	Not Given <u>Data Adequacy Response page LAND-1</u>	No Yes	The project site is zoned M-1, is currently in industrial use, and therefore is not used for farming. Section 5.4.1.2 in the AFC states that several areas along which off-site pipelines would be constructed are within or in proximity to Farmlands of Statewide Importance or farmlands that would be considered prime if irrigated. Please describe crop types, irrigation systems, and any special cultivation practices on agricultural lands adjacent to areas of pipeline construction.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Land Use

Project: Bullard Energy Center

Technical Staff: Amanda Stennick

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (15) (B) (ii)	Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the Natural Resource Conservation Service of the California Department of Conservation.	Section 5.4.1.2	Yes	
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This decision shall include:			
Appendix B (g) (15) (C) (ii)	Direct and indirect effects on agricultural land uses; and	Not given <u>Data Adequacy Response page LAND-2</u>	No Yes	The project site is zoned M-1, is currently in industrial use, and therefore is not used for farming. Section 5.4.1.2 in the AFC states that several areas along which off-site pipelines would be constructed are within or in proximity to Farmlands of Statewide Importance or farmlands that would be considered prime if irrigated. Please describe Crop types, irrigation systems, and any special cultivation practices on agricultural lands adjacent to areas of pipeline construction.
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 5.9-5, -7 Section 5.9.4.5	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Land Use

Project: Bullard Energy Center

Technical Staff: Amanda Stennick

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 5.9-5, -7	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.9.4.3	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 5.9-6	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	NA	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Project Overview

Project: Bullard Energy Center

Technical Staff: Mary Dyas

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference.	Section 5.0	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	Preparation List provided in Section 7.0, page 7-1 <u>Data Adequacy Supplement page PROJ-1</u>	No <u>Yes</u>	Please provide the Transmission System Impact Study and Facility Study and the name of the preparer of TSE information in the application.
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply, water supply, pollution control systems, and other general characteristics.	Section 3.0, Pages 3-1 through 3-58	Yes	
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessors parcel numbers.	Section 3.2, Page 3-1	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: Mary Dyas

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006
 Technical Staff: Mary Dyas
 Technical Senior: Eileen Allen

Project: Bullard Energy Center
 Docket: 06-AFC-8

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Section 3.0, Pages 3-1 to 3-4 & Figure 3.1-1 and 3.1-2	Yes	
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Section 5.13; Figure 5.13-2 <u>Data Adequacy Supplement pages PROJ-3 and PROJ-4</u>	No Yes	Please provide a full-page color photographic reproduction depicting the visual appearance of the site prior to construction.
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	Appendix P <u>Data Adequacy Supplement page PROJ-5</u>	No Yes	List provided has no names or parcel numbers. Title company would need to provide another list to URS.
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 1.3, page 1-3	Yes	
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Section 1.4, page 1-4	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Sections 1.2.5, 2.0 and 3.6	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Project Overview

Project: Bullard Energy Center

Technical Staff: Mary Dyas

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (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 2.0	Yes	
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Figures 3.4-1, 2 & 3	Yes	
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities;	Figure 3.2-1	Yes	
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Section 3.0	Yes	
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s).	Figure 3.1-2 and 3.2-1	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Project Overview

Project: Bullard Energy Center

Technical Staff: Mary Dyas

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (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.	<u>Data Adequacy Supplement paged PROJ-7, and revised page PROJ-8</u>	No <u>Yes</u>	Please provide 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.
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Section 3.10, pages 3-50 thru 3-51	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Reliability

Project: Bullard Energy Center

Technical Staff: Steve Baker

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.1, 1.2.1, 1.2.2, 1.2.3, 1.2.4, 2.0, 2.1, 2.3, 3.1, 3.2, 3.3, 3.3.1, 3.3.2.2, 3.4.1, 3.4.4, 3.4.4.1, 3.4.4.2, 3.4.5.4, 3.4.5.5, 3.4.5.6, 3.4.6, 3.4.7, 3.4.11.6, 3.5.1, 3.5.5, 3.5.8, 3.5.9, 3.5.10, 3.7.1, 3.7.1.1, 3.7.1.3, 3.7.3, 3.7.4, 3.9.2.1, 3.9.2.2, 3.9.4, 3.11.3, 3.11.4, 3.11.4.3, 3.11.4.4, 3.11.4.5, 3.11.4.6, 3.11.5, 3.11.6.1, 3.11.6.2, 3.11.7, 3.11.7.1, 3.11.7.2, 4.3, 4.4, 4.6; Table 3.4-1; App. U	Yes	
Appendix B (i) (3) (A)	A discussion of the sources and availability of the fuel or fuels to be used over the estimated service life of the facilities.	§§ 1.2.3, 3.2, 3.4.6, 3.7.1, 3.7.1.1, 3.9.4, 3.11.6.1	Yes	
Appendix B (i) (3) (B)	A discussion of the anticipated service life and degree of reliability expected to be achieved by the proposed facilities based on a consideration of:	—	—	
Appendix B (i) (3) (B) (i)	Expected annual and lifetime capacity factors;	§§ 1.2.2, 2.3, 3.4.1, 3.4.4.2, 3.11.3	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Reliability

Project: Bullard Energy Center

Technical Staff: Steve Baker

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (3) (B) (ii)	The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system;	§§ 1.2.4, 2.3, 3.1, 3.2, 3.4.7; App. U	Yes	
Appendix B (i) (3) (B) (iii)	Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability;	§§ 1.2.4, 2.3, 3.3.2.2, 3.4.7, 3.5.9, 3.5.11	Yes	
Appendix B (i) (3) (B) (iv)	Special design features adopted by the applicant or resource supplier to ensure power plant reliability; and	§§ 3.4.11.6, 3.5.9, 3.5.11, 3.11.3, 3.11.4, 3.11.4.3, 3.11.4.4, 3.11.4.5, 3.11.4.6, 3.11.7	Yes	
Appendix B (i) (3) (B) (v)	The expected power plant maturation period.	<u>Data Adequacy Supplement page RELIA-1</u>	<u>No</u> <u>Yes</u>	Describe the period required to demonstrate the reliability of the GE-LMS100 Gas Turbine
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	N/A	N/A	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Reliability

Project: Bullard Energy Center

Technical Staff: Steve Baker

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	N/A	N/A	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	N/A	N/A	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	N/A	N/A	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: Mary Dyas

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Dale Edwards

Project: Bullard Energy Center
 Docket: 06-AFC-8

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 Site Conditions: Section 5.10.2 Study Area, pages 5.10&2. Direct Impacts: Section 5.10.2.2 Employment During Construction, pages 5.10-7 to 5.10-10. Section 5.10.2.3 Employment During Operation, page 5.10-10. Indirect (and Induced) Impacts: Section 5.10.6.1 Project Construction, page 5.10-20. Section 5.10.6.2 Project Operation, page 5.10-21. Cumulative Impacts: Section 5.10.7 Cumulative Impacts, page 5.10-21. Section 5.18 Cumulative Impacts, pages 5.18-1 to 7. Section 5.10.8.6 Applicable Permits, Permit Schedule, and Fees, page 5.10-24.	Yes	
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:			

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: Mary Dyas

DATA ADEQUACY WORKSHEET

Project: Bullard Energy Center
 Docket: 06-AFC-8

Revision No. 1 Date 12/21/2006
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (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;	Section 5.10.2.1 Region, Economic Base, and Employment, pages 5.10-2 to 5.10-7. Section 5.10.6 Fiscal Resources, pages 5.10-19 & 20. Section 5.10.6.2 Project Operation page 5.10-21. Section 5.10.8 Applicable Laws, Ordinances, Regulations, and Standards, page 5.10-22. <u>Data Adequacy Response pages SOCIO-1&2.</u>	No <u>Yes</u>	Please provide a list of applicable local agencies with taxing powers and the most recent and projected revenues.
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	Section 5.10.3.1 Population and Housing in the Study Area, pages 5.10 to 13. Section 5.10.4.2 Environmental Justice Screening Analysis, page 5.10-15.	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	Section 5.10.2.1 Region, Economic Base, and Employment, pages 5.10-2 to 7.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Socioeconomics

Project: Bullard Energy Center

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Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	Section 5.10.2.2 Employment During Construction, pages 5.10-7 to 10. Section 5.10.2.3 Employment During Operation, page 5.10-10. <u>Data Adequacy Response page SOCIO-3&4</u>	No <u>Yes</u>	Please provide County or MSA quantitative estimates for the availability of skilled workers by craft required for construction and operation of the project.
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing; and	Section 5.10.3.1 Population in the Study Area, pages 5.10-10 to 13. Section 5.10.3.2 Project Impacts to Population and Housing During Construction Phase, page 5.10-13. Section 5.10.3.3 Project Impacts to Population and Housing During Operations, page 5.10-13	Yes	
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes, for the duration of the project construction schedule.	Section 5.10.5 Public Services and Utilities, pages 5.10-17 to 19.	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: Mary Dyas

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Dale Edwards

Project: Bullard Energy Center
 Docket: 06-AFC-8

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project, including:			
Appendix B (g) (7) (B) (i)	The number of workers to be employed each month by craft during construction and operation;	Table 5.10-6 Labor Requirements By Month, pages 5.10-8&9. Table 5.10-7 BEC Estimated Staff During Operations, page 5.10-10.	Yes	
Appendix B (g) (7) (B) (ii)	An estimate of the number and percentage of workers who will commute daily, commute weekly, or relocate in order to work on the project;	Section 5.10.2.2 Employment During Construction, page 5.10-7 to 10. Section 5.10.2.3 Employment During Operation, page 5.10-10. Section 5.11.2.7 Project Trip Generation, pages 5.11-9&10.	Yes	
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Section 5.10.3.2 Project Impacts to Population and Housing During Construction Phase, page 5.10-13 Section 5.10.3.3 Project Impacts to Population and Housing During Operations, page 5.10-13	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	Same as above.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Socioeconomics

Project: Bullard Energy Center

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Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operation phases;	Section 5.10.5 Public Services and Utilities, pages 5.10-17 to 19.	Yes	
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	Section 5.10.8.6 Applicable Permits, Permit Schedule, and Fees, page 5.10-24.	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and an estimate of the total operation payroll;	Section 5.10.6.1 Project Construction, page 5.10-20. Section 5.10.2.3 Employment During Operation, page 5.10-10. Section 5.10.6.2 Project Operation, page 5.10-21.	Yes	
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project; and	Section 5.10.6.1 Project Construction, page 5.10-20. <u>Data Adequacy Response page SOCIO-5</u>	No <u>Yes</u>	Please provide an estimate for locally purchased materials for the operation phase of the project.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Socioeconomics

Project: Bullard Energy Center

Technical Staff: Joseph Diamond Ph. D.

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost of the project of the potential impacts on tax revenues from construction and operation of the project.	Section 5.10.6 Fiscal Resources, pages 5.10-19&20. Section 5.10.6.1 Project Construction, page 5.10-20. Section 5.10.6.2 Project Operation, page 5.10-21. <u>Data Adequacy Response page SOCIO-6.</u>	No <u>Yes</u>	Please provide a quantitative estimate of the potential impact of tax revenues from the construction and operation of the project (i.e., sales and use tax).
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 5.10.8 Applicable Laws, Ordinances, Regulations, and Standards, page 5.10-22.	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Same as above.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.10.8.6 Applicable Permits, Permit Schedule, and Fees, page 5.10-24.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Socioeconomics

Project: Bullard Energy Center

Technical Staff: Joseph Diamond Ph. D.

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 5.10-12 Involved Agencies And Contacts, page 5.10-24.	Yes	
Appendix (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.10.8.6 Applicable Permits, Permit Schedule, and Fees, page 5.10-24.	Not Applicable.	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Soils

Project: Bullard Energy Center

Technical Staff: Linda D. Bond

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (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 below.	<u>No</u> <u>Yes</u>	Discussion of cumulative impacts is inadequate and no monitoring plans were provided in the application. Information Required: (1) Discussion of cumulative impacts including a list of past, present, and probable future projects producing related or cumulative impacts or a description or evaluation of regional or area-wide conditions. (2) Monitoring plans proposed to verify the effectiveness of the mitigation.
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 5.4-1 (map)	<u>No</u> <u>Yes</u>	Information required under Appendix B (g) (15) (A) (i) and (g) (15) (A) (ii).
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; and	Pages 5.4-2 to 5.4-5 Section 5.4.1.1 <u>Data Adequacy Response No. 21, page SOIL 4</u>	<u>No</u> <u>Yes</u>	Information Required: Depth of San Joaquin Series Soils
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.	None <u>Data Adequacy Response No. 22, pages SOIL 5-6</u>	<u>No</u> <u>Yes</u>	Information Required: Additional information on physical and chemical soil characteristics, including saturated hydraulic conductivity, soil erosion factors, and wind erosion factors for each soil type identified in the application. Data describing revegetation potential and cycling of pollutants are also required.
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:	See below.		

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Soils

Project: Bullard Energy Center

Technical Staff: Linda D. Bond

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (15) (C) (i)	The quantification of accelerated soil loss due to wind and water erosion;	None <u>Data Adequacy Response No. 24, page SOIL 8</u>	<u>No</u> <u>Yes</u>	Information Required: Quantification of accelerated soil loss due to wind and water erosion. The application must include a quantitative analysis of potential soil erosion for the temporary and permanent portions of project, including plant site, laydown area and offsite linears.
Appendix B (g) (15) (C) (iii)	The effect of power plant emissions on surrounding soil-vegetation systems.	None <u>Data Adequacy Response No. 25, page SOIL 9</u>	<u>No</u> <u>Yes</u>	Information Required: Assessment of effect of power plant emissions on surrounding soil-vegetation systems.
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Page 5.4-9 Table 5.4-2 <u>Data Adequacy Response No. 26, pages SOIL 10-12, Revised Table 5.4-2</u>	<u>No</u> <u>Yes</u>	Information Required: LORS and permits related to soil erosion and siltation control during both project construction and project operation. CEQA discussion of alteration of agricultural land characteristics due to plant air emissions.
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	(Add to Table 5.4-2) <u>Data Adequacy Response No. 27, pages SOIL 13-14, Revised Table 5.4-2</u>	<u>No</u> <u>Yes</u>	Information Required: Identity of each agency with jurisdiction to the issue permits and to enforce the LORS that is listed in Table 5.4-2.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pages 5.4-5 to 5.4-8 Section 5.4.2 <u>Data Adequacy Response No. 28, pages SOIL 15-16</u>	<u>No</u> <u>Yes</u>	Information Required: A discussion of the measures and procedures that the project will employ to ensure conformity with LORS during the construction of offsite pipelines.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

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Technical Staff: Linda D. Bond

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Page 5.4-12 Table 5.4-3 <u>Data Adequacy Response No. 28, pages SOIL 17</u>	<u>No</u> <u>Yes</u>	Information Required: Contact information for each agency with jurisdiction to issue permits and to enforce LORS that is identified in Table 5.4-2.
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	None	<u>N/A</u>	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Eng.
 Project Manager: Mary Dyas

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006
 Project: Bullard Energy Center Technical Staff: Sudath Arachchige
 Docket: 06-AFC-8 Technical Senior: Mark Hesters

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2) (A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	Section 1.1 Executive Summary Section 3.1,3.4.5 pages 3.8-3.10 Section 3.6 pages 3-33 to 3-37 Figure 3.4-3 (One line electrical diagram) Figure 3.4-6 (Single line diagram)	Yes	
Appendix B (i) (2) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.	Section 3.6 pages 3-33 to 3-37 Figure 3.4-3 One line Electrical Diagram	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Eng.
 Project Manager: Mary Dyas

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006
 Technical Staff: Sudath Arachchige
 Technical Senior: Mark Hesters

Project: Bullard Energy Center
 Docket: 06-AFC-8

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and	Section 3.6 pages 3-33 to 3-37 Figure 3.4-3 One line electrical diagram Electrical Engineering Design Criteria Appendix F.3.1 <u>Data Adequacy Response page TSE-1, System Impact Study, and Facilities Study</u>	No Yes	<p>In order to identify required downstream transmission facilities and to demonstrate conformance or non-conformance with the NERC/WSCC, and/or Utility planning standards and reliability criteria, please provide the following with respect to the System Impact Study for the nominal 200 MW Bullard Energy Center (BEC):</p> <ul style="list-style-type: none"> a. List all major study assumptions in the base cases including imports and exports to the system, major Path flows, major generations including queue generation projects and hydro, loads in the area systems. b. Identify the reliability and planning criteria utilized to determine the reliability criteria violations in the area systems. c. For the Power Flow analysis with each base case for N-0, N-1 and critical N-2 contingency conditions, provide a list of overload criteria violations in the Fresno area and non-Fresno areas in one table showing the loadings and ratings of the overloaded lines or equipment before and after adding the new generation and their differences side by side. Identify the pre-project existing overloads, post-project new overloads and incremental overloads. d. If the study identifies criteria violations, list all utility approved mitigation measures. e. Provide power flow diagrams (showing MVA, % loading & P, U voltage) for base cases with and without the BEC project. Power flow diagrams must also be provided for all N-0, N-1 and N-2 studies where overloads or voltage violations occur. <p>Provide electronic copies of *.sav and *.drw, *.dyd and *.swt GE PSLF files and EPCL contingency and comparison files in a CD (if available)..</p>
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.	Electrical Engineering Design Criteria Appendix F.3.1 Figure 3.4-3 One line electrical diagram	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Eng.
 Project Manager: Mary Dyas

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 Technical Senior: Mark Hesters

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Appendix F, Section F.2 Tables F1,F2,F3,F4 Pages F1 to F4	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Sections 5.2.7,5.8.8,5.12.6,5.13.6,5.15.6,5.16.7,5.18.9 Appendix F, Tables F1,F2,F3,F4 Pages F1 to F4	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h) (1) (A).	Electrical Engineering Design Criteria Appendix F.3.1	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 5.8.7,5.12.5,5.16.6,5.15.5,5.16.6,5.18.8 agency contacts	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Visual Resources

Project: Bullard Energy Center

Technical Staff: David Flores

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Dale Edward

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	AFC pg. 5.13-25 & 26 Sec. 5.13.3 & 5.13.4	Yes	
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the project, the region that can be seen from the vicinity of the project, and the proposed project site. Include:	AFC pg. 5.13-1 through 5 Sec. 5.13.1.1 through 5.13.1.2	Yes	
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 of the areas from which the project may be seen, identification of the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(E);	AFC pg. 5.13-8 through 12 Sec. 5.13.1.4 Figure 5.13-4	Yes	
Appendix B (g) (6) (A) (ii)	Elevations of any existing structures on the site; and	N/A	N/A	
Appendix B (g) (6) (A) (iii)	The visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities.	AFC pg. 5.13-1 through 3 Sec. 5.13.1.1	Yes	
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that will be impacted by the proposed project.	AFC pg. 5.13-6 through 20 Sec. 5.13.1.3 through 5.13.2.1 Table 5.13-1 through 5.13-3	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

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Project: Bullard Energy Center

Technical Staff: David Flores

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Dale Edward

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (C)	After discussions with staff and community residents who live in close proximity to the proposed project, identify the scenic corridors and any visually sensitive areas potentially affected by the proposed project, including recreational and residential areas. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. For purposes of this section, a scenic corridor is that area of land with scenic natural beauty, adjacent to and visible from a linear feature, such as a road, or river.	AFC pg.. 5.13-8 through 19 Sec. 5.13.1.4 Table 5.13-1 through 3	Yes	
Appendix B (g) (6) (D)	A description of the dimensions, color, and material of each major visible component of the project.	AFC pg. 5.13-26 Sec. 5.13.4	Yes	
Appendix B (g) (6) (E)	Full-page color photographic reproductions of the existing site, and full-page color simulations of the proposed project in the existing setting from each location representative of the view areas most sensitive to the potential visual impacts of the project.	Figure 5.13-17 through 5.13-22 <u>Data Adequacy Response pages VISRES-4 and VISRES-5</u>	No Yes	Please provide full-page color photographic reproductions of the existing site, and full-page color simulations of the project in the existing setting from each KOP location. Color reproductions in the AFC are half scale.
Appendix B (g) (6) (F)	An assessment of the visual impacts of the project, including light and glare, and visible plumes.	AFC pg. 5.13-20 & 24 Sec.5.13.2.1 Table 5.13-4	Yes	

Adequacy Issue: Adequate Inadequate

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Technical Senior: Dale Edward

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	AFC pg. 5.13-27 through 31 Table 5.13-5	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	AFC pg. 5.13-32 Table 5.13-6	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	AFC pg. 5.13-26 through 33 Sec. 5.13.5 Table 5.13-5	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	AFC pg. 5.13-32 Table 5.13-6	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	AFC pg. 5.13-33 Sec. 5.13.6	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Water Resources

Project: Bullard Energy Center

Technical Staff: Linda D. Bond

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (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 below.	--	
Appendix B (g) (14) (A)	All information required by the Regional Water Quality Control Board in the region where the project will be located to apply for:	See below.	--	
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; and	Page 5.5-29 Section 5.5.3.3	Yes	
Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	Page 5.5-29 Section 5.5.3.3 and Page 3-32 Section 3.5.8	Yes	
Appendix B (g) (14) (B)	A description of the hydrologic setting of the project. The information shall describe, in writing and on maps at a scale of 1:24,000, the chemical and physical characteristics of the following water bodies that may be affected by the proposed project:	See below.	--	
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Figure 5.3-2 (Map), Pages 5.5-3 to 5.5-5 Section 5.5.1.6	Yes	

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DATA ADEQUACY WORKSHEET

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Project Manager: Mary Dyas

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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) (14) (B) (ii)	Surface water bodies; and	None. <u>Data Adequacy Response No. 31, pages WATRES 1</u>	No <u>Yes</u>	The potential for the project to affect surface water was not addressed in application. Information needed: Include discussion of intermittent streams and nearby rivers; if surface water bodies may be affected by the project, provide a discussion of chemical and physical characteristics.
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	Page 3-32 Section 3.5.9 Page 5.3-12 Section 5.3.1.1	Yes	
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 of the water and the rationale for its selection, and if fresh water is to be used for power plant cooling purposes, a discussion of all other potential sources and an explanation why these sources were not feasible;	Pages 5.5-8 to 5.5-14 Section 5.5.2.1	Yes	
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	Page 5.5-18 Section 5.5.3.2 Table 5.5-8 and Page 5.5-27 Section 5.5.3.3 Table 5.5-13	Yes	
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project; and	Page 5.5-8 Section 5.5.2 Table 5.5-3 <u>Data Adequacy Response No. 33, pages WATRES 2-3</u>	No <u>Yes</u>	Information Required: Average and maximum daily and annual water demand and waste water discharge for the construction phase of the project.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

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Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (iv)	A description of all facilities to be used in water conveyance, treatment, and discharge. Include a water mass balance diagram.	Page 5.4-1 Section 4.4.1, Page 5.5-10 5.5.2.1, Page 5.5-23 to 5.5-25 Section 5.5.3.1, Page 5.5-29 Section 5.5.3.3, Page 3-12 Section 3.4.7.1 and Figure 3.4-4	Yes	
Appendix B (g) (14) (D)	A description of pre-, and post-construction runoff and drainage patterns, including:	See below.	--	
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	Page 5.5-2 Section 5.5.1.3, Page 5.5-29 Section 5.5.3.3 <u>Data Adequacy Response No. 34 , page WATRES-4</u>	No <u>Yes</u>	Information Required: A description of pre-construction runoff and drainage patterns.
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	Page 3-20 Section 3.4.7.4, Page 3-32 Section 3.5.8, Figure 3.3-1, Figure 3.4-4, and Appendix R Stormwater Calculations	Yes	
Appendix B (g) (14) (E)	An assessment of the effects of the proposed project on water resources. 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;	Pages 5.5-30 to 5.5-31 Section 5.5.4	Yes	
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	Pages 5.5-17 to 5.5-29 Section 5.5.3, Pages 3-17 to 3-20 Section 3.4.7.4, and Page 3-32 Section 3.5.8,	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

Technical Area: Water Resources

Project: Bullard Energy Center

Technical Staff: Linda D. Bond

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	Page 3-32 Section 3.5.9 Page 5.3-12 Section 5.3.1.1	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance with each law or standard, during both construction and operation of the facility, is discussed;	Page 5.5-35 Table 5.5-15 <u>Data Adequacy Response 35, pages WATRES 5-9, Revised Table 5.5-15</u>	No <u>Yes</u>	Information Required: Clearly identify all required permits in Table 5.5-15. Include in Table 5.5-15 explicit reference pages and/or sections in the application wherein conformance with each law or standard, during both construction and operation of the facility, is discussed. These pages referenced in the application, which discuss conformance, should explicitly identify the LORS that will be satisfied.
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Page 5.5-35 Table 5.5-15 <u>Data Adequacy Response 36, pages WATRES 5-9, Revised Table 5.5-15</u>	No <u>Yes</u>	Information Required: Clearly identify in Table 5.5-15 the jurisdictional agency for each LORS or permit that is listed. For example, for the CWA and the NPDES permit, identify the RWQCB as the jurisdictional agency.
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Page 5.5-34 Sections 5.5.8.1 and 5.5.8.2 <u>Data Adequacy Response 37, pages WATRES 5-9, Revised Table 5.5-15</u>	No <u>Yes</u>	Generalized statements that the project will comply with requirements are insufficient. The application must provide a discussion of the provisions or procedures the project will employ to conform to requirements. Information Required: Discussion of conformity with the water quality requirements (prohibited discharges) of the Clean Water Act, the California Water Code, the Safe Drinking Water and Toxic Enforcement Act, and the Porter-Cologne Water Quality Control Act.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 12/21/2006

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Project: Bullard Energy Center

Technical Staff: Linda D. Bond

Project Manager: Mary Dyas

Docket: 06-AFC-8

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Page 5.5-39 Table 5.5-16 <u>Data Adequacy Response 38, pages WATRES 5-9, Revised Table 5.5-16</u>	No <u>Yes</u>	Information Required: Provide contact information for each agency with jurisdiction to issue permits or to enforce LORS that is listed in Table 5.5-15. (Once Table 5.5-15 has been corrected and completed, review Table 5.5-16 and add contact information for any agencies that have been omitted.)
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Page 5.5-35 Table 5.5-15	Yes	