State Of California

Memorandum

DOCKET
07-AFC-1
DATE APR 0 9 2007
RECD. APR 1 0 2007

The Resources Agency of California

Date: April 9, 2007
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 **Executive Director**
Sacramento, CA 95814-5512

Subject: VICTORVILLE 2 HYBRID POWER PROJECT, REVISED DATA ADEQUACY RECOMMENDATION (07-AFC-1)

Staff's March 28, 2007 initial data adequacy review of the Victorville 2 Hybrid Power Project 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 6 of 23 areas: Air Quality, Land Use, Traffic & Transportation, Transmission System Engineering, Visual, and Water Resources. Subsequent to publishing our March 28, 2007 recommendation that the Commission deem the AFC data inadequate, City of Victorville provided an AFC Supplement on April 9, 2007 (one original for docketing). Staff has reviewed the supplemental information and believes the AFC now meets the above-listed requirements in all 6 technical disciplines. One hundred and twenty-five copies of the AFC Supplement will be provided on April 10, 2007.

Attached is a summary table and revised data adequacy worksheets for the six technical disciplines previously determined to be data inadequate, reflecting that the supplemental information submitted by the City of Victorville achieves data adequacy.

On February 28, 2007, the City of Victorville submitted an Application for Certification (AFC) for the proposed Victorville 2 Hybrid Power Project (Victorville 2) in the City of Victorville, San Bernardino County, California. Victorville 2 would be a hybrid of natural gas-fired combined cycle generating equipment integrated with solar thermal generating equipment, and would have a net capacity of 563 megawatts. Primary equipment for the generating facility would include two natural gas-fired combustion turbine–generators, two heat recovery steam generators, one steam turbine-generator and 250 acres of parabolic solar-thermal collectors capable of contributing up to 50 MW of the steam turbine-generator's output.

Victorville 2 would use a maximum of 3,150 acre-feet/year of tertiary-treated reclaimed water from Victorville Water Reclamation Authority, using a mechanical draft (wet) cooling tower, and recovering process wastewater from a zero liquid discharge system for treating process wastewater. The applicant proposes to use the South Coast Air Quality Management District's Rule 1309.1 interpollutant, interbasin priority reserve credits to offset its Oxides of Nitrogen (NOx) and Volatile Organic Compound (VOC) emissions. The generators would connect to a proposed switchyard and transmit project power via two 230 kV transmission lines, involving the construction or upgrade of 21

miles of Southern California Edison's transmission system. Staff has received a letter from the Mojave Desert Air Quality Management District stating that it considers the application complete. In addition, staff has received a letter from California Department of Fish and Game indicating issues to be addressed, and a letter from Lahontan Regional Water Quality Control Board confirming the AFC has properly identified applicable laws, ordinances, regulations and standards.

At the Energy Commission Business Meeting on April 11, 2007, I will recommend that the Energy Commission accept the Victorville 2 Hybrid Power Project AFC with the supplemental information as complete, and request that a Committee be appointed. If you have any questions, please call John Kessler, staff's Project Manager, at (916) 654-4679.

Attachment

Attachment A
Overview of Energy Commission Staff's
Revised Data Adequacy Determination
Victorville 2 Hybrid Power Project
07-AFC-1

Technical Area	Attachment B Page No.	Adequate ?
AIR QUALITY.....	5	YES
LAND USE.....	10	YES
TRAFFIC AND TRANSPORTATION.....	15	YES
TRANSMISSION SYSTEM ENGINEERING.....	19	YES
VISUAL RESOURCES	23	YES
WATER RESOURCES.....	26	YES

ATTACHMENT B

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

Victorville 2 Hybrid Power Project
07-AFC-1

April 9, 2007

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 9, 2007

Technical Area: **Air Quality** Project: Victorville 2 Hybrid Power Project Technical Staff: Tuan Ngo, P.E.

Project Manager: John Kessler Docket: 07-AFC-1 Technical Senior: Matthew Layton, P.E.

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sec. 6.3.2, pp. 6.3-17 to 6.3-28 Sec. 6.3.4.2, pp. 6.3-57 to 6.3-83 Sec. 6.3.5, pp. 6.3-83 to 6.3-85 AFC Supplement dated April 9, 2007, Section 6.3	~~No~~ Yes	~~Provide a discussion of the emission reduction credits' effectiveness to mitigate the project's oxides of sulfur (SOx) impact.~~ ~~Provide discussion of the access to the South Coast Air Quality Management District's VOC priority reserve for ozone precursors (NOx and VOC) for mitigating the project's emissions.~~ ~~Provide discussion of road dust (PM10/PM2.5) reduction measures for mitigating the project's emissions.~~
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.	Letters from Mojave AQMD to CEC dated March 19, 2007 and to applicant dated March 19, 2007	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.	Sec. 6.3.4.2, pp. 6.3-63 to 6.3-74, Table 6.3-15 Table 2-3, page 2-20 AFC Supplement dated April 9, 2007, Section 6.3	~~No~~ Yes	~~Provide heat rate and capacity factor for the proposed facility components (e.g. Gas Turbines/Heat Recovery Steam Generators, Auxiliary Boiler, and Heat Transfer Fluid Heater).~~
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Sec. 6.3.3, pp. 6.3-29 to 6.3-47	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.	Sec. 6.3.3.4, pp. 6.3-46 to 6.3-57	Yes	
Appendix B (g) (8) (E)	The emission rates of criteria pollutants from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all secondary emission sources.	Sec. 6.3.4.1, pp. 6.3-47 to 6.3-57	Yes	

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Project Manager: John Kessler Docket: 07-AFC-1 Technical Senior: Matthew Layton, P.E.

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) (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.	Sec. 6.3.4.1, pp. 6.3-47 to 6.3-57	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.	Sec. 6.3.2.3, pp. 6.3-23 to 6.3-28	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.	Appendix G.5	Yes	
Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995), which is incorporated by reference in its entirety.)	Appendix G.5	Yes	

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Project Manager: John Kessler Docket: 07-AFC-1 Technical Senior: Matthew Layton, P.E.

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Appendix G.1	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;	Sec. 6.3.4.2 Appendix G.5 Appendix G.1	Yes	
Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert criteria pollutant (NO_x, SO_2, CO and PM_{10}) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions; and	Sec. 6.3.4.2 Appendix G.5	Yes	

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Project Manager: John Kessler Docket: 07-AFC-1 Technical Senior: Matthew Layton, P.E.

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard.	Sec. 6.3.4.3.2, pp. 6.3-82	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:	Sec. 6.3.5.2		
Appendix B (g) (8) (J) (i)	The quantity of offsets needed;	Sec. 6.3.5.2, pp. 6.3-84	Yes	
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions; and	Sec. 6.3.5.2, pp. 6.3-84 AFC Supplement dated April 9, 2007, Section 6.3	~~No~~ Yes	~~Provide specific locations and quantity of each criteria air contaminants (NOx, VOC, SOx, PM10, PM2.5) emission reduction credits (ERC) that are earmarked to mitigate the project's emission impacts.~~
Appendix B (g) (8) (J) (iii)	Method of emission reduction.	Sec. 6.3.5.2, pp. 6.3-84 AFC Supplement dated April 9, 2007, Section 6.3	~~No~~ Yes	~~Please specify the methods or approaches such as shutdowns, road paving or other options that would be used to mitigate and reduce the project's emissions.~~
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 6.3-1	Yes	

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Project Manager: John Kessler Docket: 07-AFC-1 Technical Senior: Matthew Layton, P.E.

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;	Sec. 6.3.1, pp. 6.3-1 to 6.3-16 Tables 6.3-1a and 6.3-1b	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.	Sec. 6.3.1.4, pp. 6.3-16 to 6.3-17 Table 6.3-2	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sec. 6.3.1, pp 6.3-3 to 6.3-17, Table 6.3-3 AFC Supplement dated April 9, 2007, Section 6.3	~~No~~ Yes	~~Although the AFC identifies applicable LORS, please provide a discussion of how the project will conform to requirements of applicable Federal, State and District's Rules and 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.	Sec. 6.3.1.4, pp. 6.3-16 Table 6.3-2	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Sec. 6.3.1.4, pp. 6.3-17 Table 6.3-3	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 9, 2007

Technical Area: **Land Use** Project: Victorville 2 Hybrid Power Project Technical Staff: Shaelyn Strattan

Project Manager: John S. Kessler Docket: 07-AFC-1 Technical Senior: Eric Knight

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.	§6.8.2 (p. 6.8-7); §2.3.1, p. 2-3; §§6.8.3, 6.8.4 (pp. 6.8-16 thru 18)	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.	§6.8.2.1, pp. 6.8-8 thru 11; Tables 6.8-4,5,6; Figs. 6.8-1, 4	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;	§6.2.2.1 (p.6.2-4) §6.4 (pp. 6.4-9 thru 55); All Figs. and Tables §6.5.2.5 (pp. 6.5-11 thru 22); Tables 6.5-3,4; Appendix 1 §6.6.2.5 (pp.6.6-10,11,25-27); Fig. 6.6-4 §6.15.2, 2.2, 2.5 (pp. 6.15-5, 6, 8-12); Fig. 6.15-1 (p. 6.15-20)	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any trends in recent zoning changes and potential future land use development;	§6.8.2.1 (pp. 6.8-8 thru 6.8-11) AFC Supplement (April 9, 2007) Land 1, pp. 1-3	~~No~~ Yes	~~Please discuss any zoning changes and future land use development for nearby properties within San Bernardino County, City of Adelanto, and City of Hesperia jurisdiction. Because a General Plan Amendment has been approved by San Bernardino County and will go into effect in April 2007, please include any General Plan changes that would affect properties adjacent to the project location that are within county jurisdiction.~~

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

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Project Manager: John S. Kessler Docket: 07-AFC-1 Technical Senior: Eric Knight

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) (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	§6.8.2.1 (pp. 6.8-9 thru 6.8-10)	Yes	
Appendix B (g) (3) (A) iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Figs. 6.8-1 thru 6.8-5 AFC Supplement (April 9, 2007) Figs. 6.8-6, 6.8-8, 6.8-9	~~No~~ Yes	~~1. Please incorporate General Plan and zoning designation references for San Bernardino County lands into Fig. 6.8-3, including County land designations to the north, west, and east of the SCLA/City of Victorville boundaries, as applicable.~~ ~~2. Please provide an additional figure that identifies San Bernardino County and City of Hesperia General Plan and zoning designation references for all areas within ¼-mile of all segments of the Transmission Line Route (TLR).~~

Adequacy Issue: Adequate **X** Inadequate ____

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Revision No. 1 Date April 9, 2007

Technical Area: **Land Use**
Project: Victorville 2 Hybrid Power Project
Technical Staff: Shaelyn Strattan
Project Manager: John S. Kessler
Docket: 07-AFC-1
Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed facilities with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agency. The discussion shall identify the need, if any, for variances or any measures that would be necessary to make the proposal conform with permitted land uses.	§6.8.2.1 (pp. 6.8-8 thru 6.8-11, 16-18) AFC Supplement (April 9, 2007) Land 3, pp. 4-6	~~No~~ Yes	~~1. Please discuss the compatibility of the proposed project with potential residential housing along the northern boundary of the project in San Bernardino County and consistency with the San Bernardino General Plan and County Development Code (Title 8, San Bernardino Municipal Code).~~ ~~2. References in the San Bernardino County Development Code §85.01 address potential land use inconsistencies with the SCLA Specific Plan. Please discuss the compatibility of the proposed project and SCLA Specific Plan with the provisions of San Bernardino County Development Code, §85.01 (Airport Overlay District).~~ ~~3. AFC §6.8.3.2 indicates that some project equipment would exceed the City of Victorville Municipal Code height ordinance limit. Please identify and discuss the review requirements, findings, and conditions normally required for a variance/exemption to Municipal Code site and/or development standards.~~
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.	§6.2.2.1 (p6.2-4,5); Fig. 6.2-1 (2 pgs.)	Yes	
Appendix B (g) (15) (B) (i)	Crop types, irrigation systems, and any special cultivation practices; and	N/A	---	

Adequacy Issue: Adequate **X** Inadequate ____

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Project Manager: John S. Kessler Docket: 07-AFC-1 Technical Senior: Eric Knight

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.	NA	---	
Appendix B (g) (15) (C) (ii)	An assessment of the direct and indirect effects of the proposed project on agricultural land uses.	§6.2.3.1 (pp. 6.2-7,8)	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;	§6.8.1 (pp. 6.8-1 thru 6.8-7) AFC Supplement (April 9, 2007) Land 4, p. 6	~~No~~ Yes	~~Please incorporate references to the applicable portions of the San Bernardino County LORS into Table 6.8-1, as they relate to project land use compatibility and siting.~~
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.	§6.8.1.4 (pp. 6.8-6, 7) AFC Supplement (April 9, 2007) Land 5, pp. 6-8	~~No~~ Yes	~~Please identify Agencies with jurisdiction to issue applicable permits and/or enforce San Bernardino County, City of Adelanto, and City of Hesperia LORS into Table 6.8-2, as they relate to land use.~~
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	§6.8.1 (pp. 6.8-1,2) AFC Supplement (April 9, 2007) Land 6, pp. 7-8	~~No~~ Yes	~~Please identify and discuss the applicable portions of the San Bernardino County LORS and permitting requirements as they relate to project land use compatibility and siting, and compatibility with SCLA and City of Victorville LORS.~~

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Project: Victorville 2 Hybrid Power Project
Technical Staff: Shaelyn Strattan
Project Manager: John S. Kessler
Docket: 07-AFC-1
Technical Senior: Eric Knight

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.	§6.8.1.4 (pp. 6.8-6, 7) AFC Supplement (April 9, 2007) Land 5, pp. 6-8	~~No~~ Yes	~~Please incorporate contact information for Agencies with jurisdiction to issue applicable permits and/or enforce San Bernardino County, City of Adelanto, and City of Hesperia LORS into Table 6.8-2, as they relate to project land use.~~
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.	§6.8.1.5 (pp. 6.8-7)	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 9, 2007

Technical Area: **Traffic and Transportation** Project: Victorville 2 Hybrid Power Project Technical Staff: Shaelyn Strattan

Project Manager: John S. Kessler Docket: 07-AFC-1 Technical Senior: Eric Knight

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.	§§6.8.2.1 (pp. 6.8-9 thru 6.8-11); 6.13.2 thru 6.13.4 (pp. 6.13-8 thru 6.13-29) Figs. 6.8-1 thru 6.8-4; 6.13-1 thru 6.13-4	Yes	
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	§6.13.1.3 (pp. 6.13-5, 6) Fig. 6.13-1 Table 6.13-1	Yes	
Appendix B (g) (5) (B)	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.	§§6.13.2.1, 6.13.2.2, 6.13.2.4, 6.13.4.5 §6.8.2.1 (pp. 6.8-9 thru 6.8-11) AFC Supplement (April 9, 2007) Figs. 6.13-2, 6.13-6, 6.13-7	~~No~~ Yes	~~1. As noted in the AFC Table of Contents, Figure 16.13-3 should be the Transportation Facilities map. In both the print and electronic copy of the AFC, Figure 16.13-3 presents Peak Month Project Construction Traffic. Please provide the topographical maps at a scale of 1:24,000 that show all existing and planned transportation facilities and corridors in all jurisdictions that may be affected by or serve the proposed project. Include proposed rail line routes for Intermodal project.~~
Appendix B (g) (5) (B) (i)	Road classification and design capacity;	§6.13.2.1 (pp. 6.13-8 thru 6.13-11);	Yes	
Appendix B (g) (5) (B) (ii)	Current daily average and peak traffic counts;	Table 6.13-5 AFC Supplement (April 9, 2007) Table 6.13-11	~~No~~ Yes	~~Please provide current daily averages for roadways that may be affected by or serve the proposed project.~~

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Project Manager: John S. Kessler Docket: 07-AFC-1 Technical Senior: Eric Knight

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Appendix B (g) (5) (B) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Tables 6.13-5, 6.13-6	Yes	
Appendix B (g) (5) (B) (iv)	Weight and load limitations;	§6.13.3.2 (pp. 6.13-17, 18)	Yes	
Appendix B (g) (5) (B) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	~~None provided~~ AFC Supplement (April 9, 2007), Traffic-3, p.6.13-33	~~No~~ Yes	~~Please provide a breakdown of current traffic flows on roadways that may be affected by or serve the proposed project, by passenger vehicle and trucks.~~
Appendix B (g) (5) (B) (vi)	An identification of any road features affecting public safety.	~~None provided~~ AFC Supplement (April 9, 2007), Traffic-4, p.6.13-33	~~No~~ Yes	~~Please provide a discussion of any road features that could affect public safety along roadways that may serve the proposed project.~~
Appendix B (g) (5) (C)	A description of any new, planned, or programmed transportation facilities in the project vicinity, including those necessary for construction and operation of the proposed project. Specify the location of such facilities on topographic maps at a scale of 1:24,000.	§§2.1, 2.2 (pp. 2-1 thru 2-3), 2.4.7; §2.4.1 (pp. 6.13.2.1, 6.13.2.2 (pp. 6.13-8 thru 6.13-11); §6.8.2.1 (pp. 6.8-9 thru 6.8-11) Figs. 2-4, 6.13-1, 6.13-2, 6.13-5 AFC Supplement (April 9, 2007) Fig. 6.13-7	~~No~~ Yes	~~Please provide topographical maps at a scale of 1:24,000 specifying the type and location of any new, planned, or programmed transportation facilities in the project vicinity, including along the Transmission Line Route, including those necessary for the construction and operation of the proposed project.~~
Appendix B (g) (5) (D)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified. Include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(C).	§§6.13.3.2 thru 6.13.5.5 (pp. 6.13-15 thru 6.13-29) Tables 6.13-6 thru 6.13-10	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 9, 2007

Technical Area: **Traffic and Transportation** Project: Victorville 2 Hybrid Power Project Technical Staff: Shaelyn Strattan

Project Manager: John S. Kessler Docket: 07-AFC-1 Technical Senior: Eric Knight

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) (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.	§6.13.5.3 (pp. 6.13-18, 19) Table 6.7-3 §6.7.4.2 (pp. 6.7-10, 14-19) §§6.7.4.3, 6.7.4.4, 6.7.4.5 (pp. 6.7-20 thru 6.7.23)	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 6.13-1	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 6.13-2 AFC Supplement (April 9, 2007) Table 6.13-2 (revised), pp. 6.13-34,35, 36	~~No~~ Yes	~~Please identify agencies with jurisdiction to issue applicable permits and/or enforce LORS in San Bernardino County, City of Adelanto, and City of Hesperia jurisdictions into Table 6.13-2, as they relate to traffic and transportation issues. Also include contact information for SCLA Airport Operations and the San Bernardino County Airport Land Use Commission.~~
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	§§6.13.2.3 (p. 6.13-12); 6.13.3.2, 6.13.3.3 (pp. 6.13-15 thru 6.13-29)	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 6.13-5 AFC Supplement (April 9, 2007) Table 6.13-2 (revised), pp. 6.13-34,35, 36	~~No~~ Yes	~~Please provide contact information, including email address if available, for all agencies with potential LORS jurisdiction for traffic/transportation-related issues, as noted in Table 6.13-1. Also, see Request for Appendix B(h)(1)(B) above.~~

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 9, 2007

Technical Area: **Traffic and Transportation** Project: Victorville 2 Hybrid Power Project Technical Staff: Shaelyn Strattan

Project Manager: John S. Kessler Docket: 07-AFC-1 Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 6.13-3	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 09, 2007

Technical Area: **Transmission System Eng.** Project: Victorville 2 Hybrid Power project Technical Staff: Sudath Arachchige

Project Manager: John Kessler Docket: 07-AFC-1 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 2.5 pages 2-38 to 42 Section 2.4 pages 2-15 to 2-18 Figure 2-11 Interconnection One 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 2.5 pages 2-38 to 42 Section 2.4 pages 2-15 to 2-18 Figure 2-11 Interconnection One Line Diagram	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 09, 2007

Technical Area: **Transmission System Eng.** Project: Victorville 2 Hybrid Power project Technical Staff: Sudath Arachchige

Project Manager: John Kessler Docket: 07-AFC-1 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 (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 2.5 pages 2-38 to 42 Section 2.4 pages 2-15 to 2-18 Figure 2-11 Interconnection One Line Diagram Appendix F Interconnection System Impact Study (SIS) Facilities Study - pages 20 to 21 AFC Supplement dated April 9, 2007 Power flow diagrams for N-0, N-1 and N-2 Figure 2-19 updated one line diagram Section 2-20,Figures 2-20,23 and 24 (Line clearance for transmission line under crossings and Transmission line routings)	~~No~~ Yes	~~1. In reference to the System impact Study (SIS) dated October 16, 2006, please provide the following information:~~ ~~• Power flow diagrams for identified N-0, N-1 and N-2 overloads, with and without the proposed Victorville 2 for contingencies under 2009 Heavy Summer & 2010 Light Spring conditions.~~ ~~• Electronic copies of *.sav *drw.*.dyd and *.swt GE PSLF files and EPCL contingency files in a CD (if available).~~ ~~2. Provide a detailed one line diagram of the Victorville 2 230kV switchyard showing all equipment and their respective ratings for the generator interconnection with the switchyard. Please include any bus duct connectors or cables, 18kV breakers on the low side, generator step-up transformers, short overhead line or conductors with its configuration, buses, breakers, and disconnect switches on the 230kV side.~~ ~~3. For each of the proposed transmission segments as summarized below, please provide a full description consisting of the following: one line diagrams showing pre- and post-project facilities, pole and tower configurations including dimensions, line clearances at circuit crossings, pole and tower locations for transmission line routes, conductor sizes and conductor termination points at substations.~~ ~~Segment 1: The construction of approximately 4.3 miles of 230kV transmission line between the project site and the south of the HDPP.~~ ~~Segment 2: The addition of a second circuit approximately 5.7 mile long HDPP-Victor 230kV line.~~ ~~Segment 3: The installation of approximately 11 miles of new 230kV transmission towers and two conductor sub-bundled 1590 ACSR conductors from the Victor substation to the existing Lugo substation. Additionally, segment 3 will require relocating an existing 115kV line.~~

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 09, 2007

Technical Area: **Transmission System Eng.** Project: Victorville 2 Hybrid Power project Technical Staff: Sudath Arachchige

Project Manager: John Kessler Docket: 07-AFC-1 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 (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 2.5 pages 2-38 to 42 Section 2.4 pages 2-15 to 2-18 Figure 2-11 Interconnection One Line Diagram Appendix F Interconnection System Impact Study (SIS)	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;	Appendix D Engineering Design Criteria Section 2.0 Design codes and Standards Table 6.14-1 Pages 6.14-1 and 6.14-2	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 6.13-3 Page 6.13-7 Table 6.14-6 Pages 6.14-5 and 6.14-6	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h) (1) (A).	Appendix D Section 3.0 Pages 6.14-1 and 6.14-2	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 09, 2007

Technical Area: **Transmission System Eng.**
Project: Victorville 2 Hybrid Power project
Technical Staff: Sudath Arachchige
Project Manager: John Kessler
Docket: 07-AFC-1
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 (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 6.13-2,6.14-6 Pages 6.14-5 and 6.14-6	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.	Table 6.13-3, Page 6.13-7 Table 6.14-6, Pages 6.14-5 to 6 AFC Supplement dated April 9, 2007	~~No~~ Yes	~~Please provide the expected dates for the CA ISO preliminary and final approvals.~~

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 4/9/07

Technical Area: **Visual Resources** Project: Victorville 2 Hybrid Power Project Technical Staff: David Flores

Project Manager: John Kessler Docket: 07-AFC-1 Technical Senior: Eric Knight

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. 6.15.15-5 Sec. 6.15.2.2 AFC pg. 6.15-18 & 19 Sec. 6.15-18 AFC pg. 6.15-19 Sec. 6.15-4	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. 6.15-5 & 6 Sec. 6.15.2.1 through 6.15.2.1 through 6.15-7	YES	
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 of the areas from which the project may be seen, identification of the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(E);	Figures 6.15-3 through 6.15-7	YES	
Appendix B (g) (6) (A) (ii)	Elevations of any existing structures on the site; and	AFC pg. 2-32 through 34 Sec. 2.4.5.8 Figures 2-6a and 2-6b	YES	
Appendix B (g) (6) (A) (iii)	The visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities.	AFC pg. 6.15-5 & 6 Sec. 6.15.2.1	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. 6.15-12 through 14 Sec. 6.15.3.2 & 6.15.3.3	YES	

dequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 4/9/07

echnical Area: **Visual Resources** Project: Victorville 2 Hybrid Power Project Technical Staff: David Flores

'roject Manager: John Kessler Docket: 07-AFC-1 Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
\ppendix 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.6.15-5 through 9 Sec. 6.15.2 through 6.15.2.5	YES	
Appendix B (g) (6) (D)	A description of the dimensions, color, and material of each major visible component of the project.	AFC pg. 2-32 through 34 Sec. 6.15.2 through 6.15.2.5	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 6.15-5a & 5b Figure 6.15-6a & 6b Figure 6.15-7a & 7b Figures 2-13a through 2-18b	YES	
Appendix B (g) (6) (F)	An assessment of the visual impacts of the project, including light and glare, and visible plumes.	AFC pg. 6.15-11 & 12 Sec. 6.15.3.1 AFC pg. 6.15-14 through 16 Sec. 6.15.3.4 Table 6.15-3; Pages 6.15-20 & 21, AFC Supplement dated April 9, 2007	~~NO~~ YES	~~Although a brief discussion on the visual effects of light and glare is discussed from the natural gas-fired generating portion of the project, there is no discussion of the effects of glare from the solar array portion of the project. Discuss the effects of the solar arrays from public viewing areas, especially from the KOP 3, which has been identified as the nearest residence.~~

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 4/9/07

Technical Area: **Visual Resources** Project: Victorville 2 Hybrid Power Project Technical Staff: David Flores

Project Manager: John Kessler Docket: 07-AFC-1 Technical Senior: Eric Knight

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. 6.15-1 through 4 Sec. 6.15.1 through 6.15.1.2 Table 6.15-2	YES	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	AFC pg. 6.15-4 Sec. 6.15.1.3 Table 6.15-2	YES	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	AFC pg. 6.15-2 through 4 Sec. 6.15.1. through 6.15.1.2	YES	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	AFC pg. 6.15-4 Sec. 6.15.1.3 Table 6.15-2	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		N/A	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 4/9/07

Technical Area: **Water Resources** Project: Victorville 2 Hybrid Power Project Technical Staff: Ellie Townsend-Hough

Project Manager: John Kessler Docket: 07-AFC-01 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.	Section 6.17.3 Section 6.17.4	Yes	
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:	Pages 6.17-1 to 6.17-7 Section 6.17.1 Table 6.17-1	Yes	
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; and	Not applicable	NA	
Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	Page 6.17-8 Table 6.17-3	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:			
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Pages 6.17-9 to 6.17-11 Section 6.17.2.2 Figure 6.17-1	Yes	
Appendix B (g) (14) (B) (ii)	Surface water bodies; and	Pages 6.17-11 to 6.17-12 Section 6.17.2.3 Figure 6.17-1	Yes	
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	Page 6.17-12 Section 6.17.2.3 Page 6.17-18 Section 6.17.3.3 Figure 6.17-2	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 4/9/07

Technical Area: **Water Resources** Project: Victorville 2 Hybrid Power Project Technical Staff: Ellie Townsend-Hough

Project Manager: John Kessler Docket: 07-AFC-01 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)	A description of the water to be used and discharged by the project. This information shall include:			
Appendix B (g) (14) (C) (i)	Source of the water and the rationale for its selection, and if fresh water is to be used for power plant cooling purposes, a discussion of all other potential sources and an explanation why these sources were not feasible;	Pages 2.20 to 2.24 Section 2.4.5.2 Page 6.16-12 to 6.17-13 Section 6.17.2.4	Yes	
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	Pages 2-20 to 2-26 Sections 2.4.5.2 through 2.4.5.4 Figure 2-12a & Figure 2-12b, Figure 2-12c	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	Pages 2-20 to 2-26 Sections 2.4.5.2 through 2.4.5.4 Figure 2-12a & Figure 2-12b, Figure 2-12c	Yes	
Appendix B (g) (14) (C) (iv)	A description of all facilities to be used in water conveyance, treatment, and discharge. Include a water mass balance diagram.	Pages 2-20 to 2-26 Sections 2.4.5.2 through 2.4.5.4 Figure 2-12a & Figure 2-12b, Figure 2-12c	Yes	
Appendix B (g) (14) (D)	A description of pre-, and post-construction runoff and drainage patterns, including:			
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	Page 6.17-9 Section 6.17.2.1; Pages 6.17-11 & 12, Section 6.17.2.3	Yes	
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	Page 2-34 & 35 Section 2.4.6.7; Page 6.17-14 Section 6.17.3.1 Page 6.17-17 Section 6.17.3.2 AFC Supplement dated April 9, 2007, Section 6.17, Figures 6.17-3 & 6.17-4	~~No~~ Yes	~~Please provide the design criteria and conceptual drainage plans/BMPs for the construction and operational phases of the project.~~

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 4/9/07

Technical Area: **Water Resources** Project: Victorville 2 Hybrid Power Project Technical Staff: Ellie Townsend-Hough

Project Manager: John Kessler Docket: 07-AFC-01 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) (E)	An assessment of the effects of the proposed project on water resources. This discussion shall include:			
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source;		Yes	
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	Page 2-34 & 35 Section 2.4.6.7; Page 6.17-14 Section 6.17.3.1 Page 6.17-17 Section 6.17.3.2	Yes	
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	Page 6.17-18 Section 6.17.3.3	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Tables 6.17-1	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Tables 6.17.2 and Table 6.17-3	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pages 6.17-1 to 6.17-7 Sections 6.17.1	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date 4/9/07

Technical Area: **Water Resources** Project: Victorville 2 Hybrid Power Project Technical Staff: Ellie Townsend-Hough

Project Manager: John Kessler Docket: 07-AFC-01 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.	Tables 6.17.2	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 6.17-3	Yes	