State Of California | The Resources Agency of California

Memorandum

Date: May 21, 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

Terrance J. Brown for

DOCKET
07-AFC-2
DATE MAY 21 2007
RECD. MAY 21 2007

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

Subject: **SAN GABRIEL GENERATING STATION PROJECT, REVISED DATA ADEQUACY RECOMMENDATION (07-AFC-2)**

Staff's May 10, 2007 initial data adequacy review of the San Gabriel Generating Station 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 9 of 23 areas: Air Quality, Cultural Resources, Land Use, Noise, Project Overview, Socioeconomics, Traffic & Transportation, Transmission System Engineering, and Water Resources. Subsequent to publishing our May 10, 2007 recommendation that the Commission deem the AFC data inadequate, the San Gabriel Power Generation, LLC provided 150 copies of an AFC Supplement on May 21, 2007. Staff has reviewed the supplemental information and believes the AFC now meets the above-listed requirements in all nine technical disciplines.

Attached is a summary table and revised data adequacy worksheets for the nine technical disciplines previously determined to be data inadequate. The supplemental information submitted by the San Gabriel Power Generation, LLC achieves data adequacy.

On April 13, 2007, the San Gabriel Power Generation, LLC, a subsidiary of Reliant Energy, submitted an AFC to construct and operate the San Gabriel Generating Station (SGGS) Project, a combined cycle electrical power plant facility in the City of Rancho Cucamonga, San Bernardino County. The SGGS would be a natural gas-fired combined cycle power plant and would have a net capacity of 656 megawatts. Primary equipment for the generating facility would include two combustion turbine generators, two heat recovery steam generators, and one steam turbine generator. Dry cooling technology in the form of an air cooled condenser will be used by the SGGS facility. The applicant proposes to use South Coast Air Quality Management District's Rule 1309.1 priority reserve credits for offsetting part of the project's emissions. The generators would connect to a proposed switchyard and transmit project power via a 525 kV transmission line that would connect to the future Southern California Edison Rancho Vista Substation.

Staff has received a letter from the South Coast Air Quality Management District stating that it considers the application complete. In addition, staff has received a letter from the City of Rancho Cucamonga indicating initial concerns of increased noise and impacts on air quality and public services that need to be addressed, and a letter from the San Bernardino County Fire Department requiring the completion of a Risk Management Plan prior to the issuance of a building permit.

At the Energy Commission Business Meeting on May 23, 2007, I will recommend that the Energy Commission accept the SGGS Project AFC with the supplemental information as complete and request that a Committee be appointed. If you have any questions, please call Stanley Yeh, staff's Project Manager, at (916) 651-8843.

Attachment

Attachment A
Overview of Energy Commission Staff's
Revised Data Adequacy Determination
San Gabriel Generating Station Project
07-AFC-2

Technical Area	Attachment B Page No.	Adequate ?
AIR QUALITY.....	5	YES
CULTURAL RESOURCES.....	11	YES
LAND USE.....	17	YES
NOISE.....	21	YES
PROJECT OVERVIEW.....	25	YES
SOCIOECONOMICS.....	30	YES
TRAFFIC AND TRANSPORTATION.....	37	YES
TRANSMISSION SYSTEM ENGINEERING.....	41	YES
WATER RESOURCES.....	45	YES

ATTACHMENT B

ENERGY COMMISSION STAFF'S
Data Adequacy Determination
Revised to Reflect May 21, 2007 AFC Supplement

San Gabriel Generating Station Project
07-AFC-2

May 21, 2007

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Air Quality** Project: San Gabriel Generating Station Technical Staff: Joe Loyer

Project Manager: Stan Yeh Docket: 07-AFC-2 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 7.1 Appendix K Electronic Modeling Files and excel spreadsheets. Confidential Filing	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.	Section 7.1 page 7.1-1 to 76. SCAQMD 5/17/07 Letter	~~No~~ Yes	~~Please submit the letter of completeness from the SCAQMD when it becomes available (typically 30 days following the date of application).~~
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.	Appendix K-3 Table 2.5-5 page 2-8	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Appendix K-7	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 2.5.3.3 page 2-9	Yes	
Appendix B (g) (8) (E)	The emission rates of criteria pollutants and greenhouse gases (CO2, CH4, N2O, and SF6) from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.	Sections 7.1.2.1 & 7.1.2.2 page 7.1-17 to 31. Appendix K-4	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

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Revision No. 1 Date May 21, 2007

Technical Area: **Air Quality** Project: San Gabriel Generating Station Technical Staff: Joe Loyer

Project Manager: Stan Yeh Docket: 07-AFC-2 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) (8) (F)(i)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Section 7.1.2.2 page 7.1-21 to 31 Appendix K-3	Yes	
Appendix B (g) (8) (F)(ii)	A description of the project's planned initial commissioning phase, which is the phase between the first firing of emissions sources and the commercial operations date, including the types and durations of equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests.	Section 7.1.2.2 page 7.1-21 to 31 Appendix K-3	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 7.1.1.2 page 7.1-4 to 17.	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 7.1.1.2 page 7.1-4 to 17.	Yes	

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Project Manager: Stan Yeh Docket: 07-AFC-2 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) (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 7.1.1.1 page 7.1-1 to 4. Appendix K-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 criteria pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM_{10}) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO_x), sulfur dioxide (SO_2), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM_{10}) and particulate matter less than 2.5 microns in diameter (PM2.5)] from construction-related equipment;	Sections 7.1.2.3 & 7.1.2.4 page 7.1-31 to 42. Electronic Modeling files and spreadsheets.	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

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Revision No. 1 Date May 21, 2007

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Project Manager: Stan Yeh Docket: 07-AFC-2 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) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant (NO_x, SO_2, CO, PM_{10}, and $PM_{2.5}$) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions;	Sections 7.1.2.3 & 7.1.2.4 page 7.1-31 to 42. Electronic Modeling files and spreadsheets.	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; and	Section 7.1.3 page 7.1-51, 52.	Yes	
Appendix B (g) (8) (I) (iv)	An air dispersion modeling analysis of the impacts of the initial commissioning phase emissions on state and federal ambient air quality standards for NO_X, SO_2, CO, PM_{10}, and $PM_{2.5}$.	Section 7.1.2.3 page 7.1-31 to 36.	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:			

Adequacy Issue: Adequate **X** Inadequate ____

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Revision No. 1 Date May 21, 2007

Technical Area: **Air Quality** Project: San Gabriel Generating Station Technical Staff: Joe Loyer

Project Manager: Stan Yeh Docket: 07-AFC-2 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) (8) (J) (i)	The quantity of offsets or emission reductions that are needed to satisfy air permitting requirements of local permitting agencies (such as the air district), state and federal oversight air agencies, and the California Energy Commission. Identify by criteria air pollutant, and if appropriate, greenhouse gas; and	Section 7.1.4 page 7.1-52, 53. Page 7.1-54, Table 7.1-35.	Yes	
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions;	Section 7.1.4 page 7.1-52, 53. Table 7.1-35 page 7.1-54. Confidential Filing	Yes	
Appendix B (g) (8) (K)	A detailed description of the mitigation, if any, which an applicant may propose, for all projects impacts from criteria pollutants that currently exceed state or federal ambient air quality standards, but are not subject to offset requirements under the district's new source review rule.	Section 7.1.4 page 7.1-52 to 54.	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 7.1.6 page 7.1-54 to 74.	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 7.1.7 page 7.1-74.	Yes	

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Project Manager: Stan Yeh

Project: San Gabriel Generating Station
Docket: 07-AFC-2

Technical Staff: Joe Loyer
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 (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Section 7.1.7 page 7.1-74.	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 7.1.8 page 7.1-75.	Yes	

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DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Cultural Resources** Project: San Gabriel Generating Station Technical Staff: Beverly E. Bastian

Project Manager: Stan Yeh Docket: 07-AFC-2 Technical Senior: Rick York

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: Vol. 1, p. 2-1; p. 7.3-1; Vol. 2, App. M, p. 1-10	Yes	
		impacts due to project: Vol. 1, pp. 7.3-13 to 7.3-14; Vol. 2, App. M, pp. 3-3 to 3-7	Yes	
		mitigation measures for known impacts: N/A (no known cultural resources, no adverse effects, no mitigation)	Yes	
		effectiveness of the proposed measures: N/A (no known cultural resources, no adverse effects, no mitigation)	Yes	
		any monitoring plans proposed to verify the effectiveness of the mitigation: N/A (no known cultural resources, no adverse effects, no mitigation)	Yes	
Appendix B (g) (2) (A)	A summary of the ethnology, prehistory, and history of the region with emphasis on the area within no more than a 5-mile radius of the project location.	summary of the ethnology, prehistory, and history: Vol. 1, pp. 7.3-2 to 7.3-10	Yes	

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Appendix B (g) (2) (B)	The results of a literature search to identify cultural resources within an area not less than a 1-mile radius around the project site and not less that than one-quarter (0.25) mile on each side of the linear facilities. Identify any cultural resources listed pursuant to ordinance by a city or county, or recognized by any local historical or archaeological society or museum. Literature searches to identify the above cultural resources must be completed by, or under the direction of, individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.	literature searches: Vol. 1, p. 7.3-11; Vol. 2, App. M, pp. 1-1, 1-18; Vol. 1, p. 7.3-11; Vol. 2, App. M, p.1-18	Yes	
		cultural resources listed under a city or county ordinance: AFC 5/21/07 Supplement	~~No~~ Yes	~~Applicant needs to contact LA County and identify cultural resources listed per local ordinance that are located within a one-mile radius of the proposed plant site.~~
		cultural resources recognized by local societies: AFC 5/21/07 Supplement	~~No~~ Yes	~~Applicant needs to contact local historical and archaeological societies to identify recognized local cultural resources that are located within a one-mile radius of the proposed plant site.~~
	Copies of California Department of Parks and Recreation (DPR) 523 forms (Title 14 CCR §4853) shall be provided for all cultural resources (ethnographic, architectural, historical, and archaeological) identified in the literature search as being 45 years or older or of exceptional importance as defined in the National Register Bulletin Guidelines, (36CFR60.4(g)). A copy of the USGS 7.5' quadrangle map of the literature search area delineating the areas of all past surveys and noting the California Historical Resources Information System (CHRIS) identifying number shall be provided. Copies also shall be provided of all technical reports whose survey coverage is wholly or partly within .25 mile of the area surveyed for the project under Section (g)(2)(C), or which report on any archaeological excavations or architectural surveys within the literature search area.	names/quals for lit searchers/directors: Vol. 2, App. M, p. 1-2; Vol. 2, App. A; Vol. 2, App. M, App. D, p. 27; Vol. 2, App. M, App. D, p. 27	Yes	
		DPR 523s for known resources: Vol. 2, App. M, App. B	Yes	
		map lit search area with past surveys and CHRIS ID #s: Vol. 2, Fig. 4, Vol. 2, Table 1	Yes	
		CHRIS reports: Vol. 2, App. M, App. B		

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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) (2) (C)	The results of new surveys or surveys less than 5 years old shall be provided if survey records of the area potentially affected by the project are more than five (5) years old. Surveys to identify new cultural resources must be completed by (or under the direction of) individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.	names/quals for surveyors/directors: Vol. 2, App. M, p. 1-2; Vol. 2, App. A; Vol. 2, App. M, App. D, p. 27; Vol. 2, App. M, App. D, p. 27	Yes	
	New pedestrian archaeological surveys shall be conducted inclusive of the project site and project linear facility routes, extending to no less than 200' around the project site, substations and staging areas, and to no less than 50' to either side of the right-of-way of project linear facility routes. New historic architecture field surveys in rural areas shall be conducted inclusive of the project site and the project linear facility routes, extending no less than .5 mile out from the proposed plant site and from the routes of all above-ground linear facilities. New historic architecture field surveys in urban and suburban areas shall be conducted inclusive of the project site, extending no less than one parcel's distance from all proposed plant site boundaries. New historic architecture field reconnaissance ("windshield survey") in urban and suburban areas shall be conducted along the routes of all linear facilities to identify, inventory, and characterize structures and districts that appear to be older than 45 years or that are exceptionally significant, whatever their age.	survey coverage, archaeology: Vol. 2, App. M, p. 2-1; architecture: Vol. 2, App. M, App. D, map 2	Yes	
	A technical report of the results of the new surveys, conforming to the Archaeological Resource Management Report format (CA Office of Historic Preservation Feb 1990), which is incorporated by reference, shall be separately provided and submitted (under confidential cover if archaeological site locations are included).	tech reports for new archaeology and historical architecture surveys: Vol. 2, App. M; Vol. 2, App. M, App. D	Yes	

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C) cont.	Information included in the technical report shall also be provided in the Application for Certification, except that confidential information (archaeological sites or areas of religious significance) shall be submitted under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq. At a minimum, the technical report shall include the following:	AFC includes tech report data, unless confidential: Vol. 1, §7.3	Yes	
Appendix B (g) (2) (C) (i)	The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);	summary: Vol. 2, App. M, pp. 1-11 to 1-18; Vol. 2, App. M, App. D, pp. 5-13 lit-search results: Vol. 2, App. M, pp. 1-18 to 1-27; Fig. 5; Table 2; Vol. 2, App. M, App. D, pp. 3-4	Yes Yes	
Appendix B (g) (2) (C) (ii)	The survey procedures and methodology used to identify cultural resources and a discussion of the cultural resources identified by the survey;	methodology: Vol. 2, App. M, p. 2-1; Vol. 2, App. M, App. D, p. 4	Yes	
Appendix B (g) (2) (C) (iii)	Copies of all new and updated DPR 523(A) forms. If a cultural resource may be impacted by the project, also include the appropriate DPR 523 detail form for each such resource;	archaeology forms: N/A architecture forms: Vol. 2, App. M, App. D, App. B	Yes Yes	
Appendix B (g) (2) (C) (iv)	A map at a scale of 1:24,000 U.S. Geological Survey quadrangle depicting the locations of all previously known and newly identified cultural resources compiled through the research required by Appendix B (g)(2)(B) and Appendix B (g)(2)(C) (ii); and	archaeology map: Vol. 2, Fig. 5 architecture map: Vol. 2, App. M, App. D, Map 3	Yes Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

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Technical Area: **Cultural Resources** Project: San Gabriel Generating Station Technical Staff: Beverly E. Bastian

Project Manager: Stan Yeh Docket: 07-AFC-2 Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C) (v)	The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report.	names/quals for CR specialists: Vol. 2, App. M, p. 1-2; Vol. 2, App. A; Vol. 2, App. M, App. D, p. 27; Vol. 2, App. M, App. D, p. 27	Yes	
Appendix B (g) (2) (D)	Provide a copy of your request to the Native American Heritage Commission (NAHC) for information on Native American sacred sites and lists of Native Americans interested in the project vicinity, and copies of any correspondence received from the NAHC. Notify the Native Americans on the NAHC list about the project, including a project description and map. Provide a copy of all correspondence sent to Native American individuals and groups listed by the NAHC and copies of all responses. Provide a written summary of any oral responses.	NAHC request: Vol. 2, App. M, App. C NAHC response: Vol. 2, App. M, App. C letters sent to Native Americans: Vol. 2, App. M, App. C responses from Native Americans: Vol. 2, App. M, App. C summary of oral responses from Native Americans: Vol. 2, App. M, App. C	Yes Yes Yes Yes Yes	
Appendix B (g) (2) (E)	Include in the discussion of proposed mitigation measures required by subdivision (g)(1):	mitigation measures for known impacts: N/A (no known cultural resources, no adverse effects, no mitigation)	Yes	
Appendix B (g) (2) (E) (i)	A discussion of measures proposed to mitigate project impacts to known cultural resources;	mitigation measures for known impacts: N/A (no known cultural resources, no adverse effects, no mitigation)	Yes	
Appendix B (g) (2) (E) (ii)	A set of contingency measures proposed to mitigate potential impacts to previously unknown cultural resources and any unanticipated impacts to known cultural resources; and	contingency mitigation measures: Vol. 1, pp. 7.3-15 to 7.3-16; Vol. 2, App. M, pp. 3-5 to 3-7	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Cultural Resources** Project: San Gabriel Generating Station Technical Staff: Beverly E. Bastian

Project Manager: Stan Yeh Docket: 07-AFC-2 Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (E) (iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural resources.	worker education: Vol. 1, p. 7.3-15	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	tables identifying applicable LORS: Vol. 1, Table 7.3-1 explicitly referenced pages: Vol. 1, Table 7.3-1 discussion of applicability of LORS: Vol. 1, pp. 7.3-17 to 7.3-18; Vol. 2, App. M, pp. 3-1 to 3-3, 3-7; Vol. 2, App. M, App. D, pp. 23-26	Yes Yes Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	N/A (no permits required)	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	official within each agency who will serve as a contact person for the agency: Vol. 1, p. 7.3-18	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A (no permits required)	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Land Use** Project: San Gabriel Generating Station Technical Staff: Amanda Stennick

Project Manager: Stan Yeh Docket: 07-AFC-2 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.	Section 7.4	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 7.4.1.2 and 7.4.1.3 Figures 7.4-1 through -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;	Sections 7.4.1.2 and 7.4.1.3 Figures 7.4-1 through -4	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any recent or proposed zone changes and/or general plan amendments noticed by an elected or appointed board, commission, or similar entity at the state or local level;	~~Not included~~ Provided in applicant's May 2007 Data Adequacy Supplement	~~No~~ Yes	~~Please provide a discussion of any recent or proposed zone changes and general plan amendments the City of Rancho Cucamonga has approved or noticed for consideration of approval. If there are none, please provide a statement to that effect.~~
Appendix B (g) (3) (A) (iii)	Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and	~~Not included~~ Provided in applicant's May 2007 Data Adequacy Supplement	~~No~~ Yes	~~Please identify all discretionary reviews by the City of Rancho Cucamonga initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii). If there are none, please provide a statement to that effect.~~

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Land Use** Project: San Gabriel Generating Station Technical Staff: Amanda Stennick

Project Manager: Stan Yeh Docket: 07-AFC-2 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) (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 7.4-1 through -4	Yes	
Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed project with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agencies. The discussion shall identify the need, if any, for land use decisions by another public agency or as part of the commission's decision that would be necessary to make the project conform to adopted federal, state, regional, or local coastal plans, land use plans, or zoning ordinances. Examples of land use decisions include: general plan amendments, zoning changes, lot line adjustments, parcel mergers, subdivision maps, Agricultural Land Conservation Act contracts cancellation, and Airport Land Use Plan consistency determinations.	Sections 7.4.1.4, 7.4.2.2, 7.4.2.3, 7.4.5.3, 7.4.7, 7.4.7.1 Provided in applicant's May 2007 Data Adequacy Supplement	~~No~~ Yes	~~Whether the additional 1.2 acres for the project site is acquired through a long-term lease or purchase, the applicant will have to comply with the State Subdivision Map Act and Title 16 of the City of Rancho Cucamonga Municipal Code for the proposed parcel split and/or merger. Please cite all relevant City of Rancho Cucamonga LORS pertaining to the parcel split and/or merger and provide a timetable for its completion.~~ ~~Please give the citation for the City of Rancho Cucamonga's Use Permit Ordinance and provide a discussion of how the proposed project would be consistent with each applicable standard of the City's use permit criteria.~~ ~~Because Ontario International Airport is 3.5 miles southwest of the proposed site, please provide a discussion of the project's compatibility with the Airport Land Use Plan.~~

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Land Use** Project: San Gabriel Generating Station Technical Staff: Amanda Stennick

Project Manager: Stan Yeh Docket: 07-AFC-2 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) (C)	A discussion of the legal status of the parcel(s) on which the project is proposed. If the proposed site consists of more than one legal parcel, describe the method and timetable for merging or otherwise combining those parcels so that the proposed project, excluding linears and temporary laydown or staging area, will be located on a single legal parcel. The merger need not occur prior to a decision on the Application but must be completed prior to the start of construction.	Section 7.4.1.4 Provided in applicant's May 2007 Data Adequacy Supplement	~~No~~ Yes	~~Please see the first paragraph in response to Appendix B (g) (3) (B) above.~~
Appendix B (g) (3) (D)	A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:	Section 7.4.1.3	Yes	
Appendix B (g) (3) (D) (i)	Crop types, irrigation systems, and any special cultivation practices;	Section 7.4.1.3	Yes	
Appendix B (g) (3) (D) (ii)	Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the California Department of Conservation; and	Section 7.4.1.3	Yes	
Appendix B (g) (3) (D) (iii)	Direct, indirect, and cumulative effects on agricultural land uses. If the proposed site or related facilities are subject to an Agricultural Land Conservation contract, provide a written copy and a discussion of the status of the expiration or canceling of such contract.	Not applicable	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Land Use** Project: San Gabriel Generating Station Technical Staff: Amanda Stennick

Project Manager: Stan Yeh Docket: 07-AFC-2 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 (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table 7.4-1 Provided in applicant's May 2007 Data Adequacy Supplement	~~No~~ Yes	~~Please see the first paragraph in response to Appendix B (g) (3) (B) above.~~ ~~Section 7.4.7.2 states that the project is designed to be consistent with the Title 17 standards in the City of Rancho Cucamonga's Ordinance. Please provide a discussion of how the proposed project will conform to each applicable standard in Title 17 of the City's Ordinance.~~
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 7.4-6	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 7.4-6	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Not given	N/A	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Noise** Project: San Gabriel Generating Station Technical Staff: Steve Baker

Project Manager: Stan Yeh Docket: 07-AFC-2 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, 1.4, 1.6, 1.11.5, 2.2, 2.3, 2.4.1, 2.5.3.1, 2.5.3.4, 2.7, 2.7.1, 2.9.2.2; Chapter 7.5; §§ 8.4.2.2, 8.4.2.3; Appendix O	Yes	
Appendix B (g) (4) (A)	A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area potentially impacted by the proposed project is that area where, during either construction or operation, there is a potential increase of 5 dB(A) or more, over existing background levels.	Figure 7.5-1	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Noise** Project: San Gabriel Generating Station Technical Staff: Steve Baker

Project Manager: Stan Yeh Docket: 07-AFC-2 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) (4) (B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for a lesser duration at the applicant's discretion, preferably during the same 25-hour period. The results of the noise level measurements shall be reported as hourly averages in Leq (equivalent sound or noise level), Ldn (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L10, L50, and L90 values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported in units of dB(A).	§§ 7.5.1.4, 7.5.1.5, 7.5.1.7; Tables 7.5-2, 7.5-3; Figure 7.5-1; Replacement p. 7.5-5 5/07 AFC Supplement	~~No~~ Yes	~~Provide a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the ambient noise measurements.~~
Appendix B (g) (4) (C)	A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.	§§ 1.4, 2.5.3.1, 7.5.2.1, 7.5.2.2, 7.5.2.4; Appendix O	Yes	
Appendix B (g) (4) (D)	An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project.	§§ 1.11.5, 7.5.2.1; Table 7.5-4 5/07 AFC Supplement	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Noise** Project: San Gabriel Generating Station Technical Staff: Steve Baker

Project Manager: Stan Yeh Docket: 07-AFC-2 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) (4) (E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.	§§ 7.5.2.3, 7.5.4.2, 7.5.4.3; Replacement p. 7.5-11 5/07 AFC Supplement	~~No~~ Yes	~~Provide an estimate of the project noise levels within the project site boundary during construction and the impact to construction workers at the site due to the estimated noise levels.~~
Appendix B (g) (4) (F)	The audible noise from existing switchyards and overhead transmission lines that would be affected by the project and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines.	§§ 1.1, 1.4, 2.9.2.2, 7.5.2.4	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	§§ 7.5.6.1, 7.5.6.2, 7.5.6.3; Table 7.5-6	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 7.4-6	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Noise**
Project: San Gabriel Generating Station
Technical Staff: Steve Baker
Project Manager: Stan Yeh
Docket: 07-AFC-2
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) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	§ 7.5.5	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	§ 7.5.5	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Project Overview**
Project Manager: Stan Yeh

Project: San Gabriel Generating Station
Docket: 07-AFC-2

Technical Staff: Stan Yeh
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.		N/A	Please see the individual technical areas for a determination regarding the adequacy of this item.
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		N/A	Please see the individual technical areas for a determination regarding the adequacy of this item.
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		N/A	Please see the individual technical areas for a determination regarding the adequacy of this item.
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.	Sections 7.0 thru 9.0	Yes	
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply routes and facilities, water supply routes and facilities, pollution control systems, and other general characteristics.	Section 1.1, 1.4, 1.8 thru 1.10, 2; Replacement p. 1-6 and 2-40 5/07 AFC Supplement Figures 1.1-1 thru 2.5-5	~~No~~ Yes	~~Please provide the length of the proposed transmission line.~~
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessor's parcel numbers.	Section 2.2, page 2-1	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Project Overview** Project: San Gabriel Generating Station Technical Staff: Stan Yeh

Project Manager: Stan Yeh Docket: 07-AFC-2 Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Section 1.1, page 1-1 Figures 1.1-1 thru 1.4-2 Section 2.2, page 2-1 Figures 2.2-1 thru 2.5-1 Figures 7.11-1 thru 7.11-3	Yes	
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Figure 2.2-1, 2.5-4, 7.11-2, 7.11-4 thru 7.11-8, 7.11-10 thru 7.11-14	Yes	
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	Appendix N	Yes	
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Figure 2.7-1	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 1-2 Section 1.7, page 1-5	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Section 4.1, page 4-1	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Project Overview** Project: San Gabriel Generating Station Technical Staff: Stan Yeh

Project Manager: Stan Yeh Docket: 07-AFC-2 Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Section 1.7, page 1-5	Yes	
Appendix B (b) (1)	In a section entitled, "Generation Facility Description, Design, and Operation" provide the following information:			
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), (or appropriate map scale agreed to by staff) along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Figures 2.2-1 and 2.3-1	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 to establish the accuracy of the photo simulations required in Sections (a)(1)(D) and (g)(6)(F);	Figures 2.3-1, 2.5-1 thru 2.5-3	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	Chapter 2, pages 2-1 thru 2-45	Yes	
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.	Chapter 8	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Project Overview** Project: San Gabriel Generating Station Technical Staff: Stan Yeh

Project Manager: Stan Yeh Docket: 07-AFC-2 Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information:			
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 (or appropriate map scale agreed to by staff) of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s);	Replacement Figure 2.2-1	~~No~~ Yes	~~Please provide a map depicting the existing and proposed transmission line routes.~~
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	Figures 7.11-4 thru 7.11-8, 7.11-10 thru 7.11-14	Yes	
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.	Section 1.10, pages 1-5 and 1-6 Chapter 4	Yes	
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints; and	Section 8.7, page 8-5	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Project Overview**
Project Manager: Stan Yeh

Project: San Gabriel Generating Station
Docket: 07-AFC-2

Technical Staff: Stan Yeh
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 (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Section 3.1, page 3-1	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Socioeconomics** Project: San Gabriel Generating Station Technical Staff: Joseph Diamond Ph. D.

Project Manager: Stan Yeh Docket: 07-AFC-2 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.	Section 7.8.1 Affected Environment, pages 7.8-1 to 7.8-8. Section 7.8.2.3 Economic Impacts, Construction, pages 7.8-12 to 7.8-16. Section 7.8.4 Cumulative Impacts, page 7.8-22. Section 7.4.3 Cumulative Impacts, pages 7.4 and 5. Section 7.10.3 Cumulative Impacts, page 7.10-24. Section 7.8.5 Mitigation Measures, page 7.8-22. Section 7.8.8 Permits Required and Permit Schedule, page 7.8-24. Figure 7.8-1 Socioeconomic Study Area.	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:	Section 7.8.1 Affected Environment, pages 7.8-1 to 7.8-4.	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Socioeconomics** Project: San Gabriel Generating Station Technical Staff: Joseph Diamond Ph. D.

Project Manager: Stan Yeh Docket: 07-AFC-2 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) (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 7.8.1.1 Economy :Labor Force, Employment, and Income, pages 7.8-1 to 7.8-4. Table 7.8-2 Labor Force, Employment, and Industry: Riverside, Los Angeles, and Orange Counties, page 7.8-5. Section 7.8.1.4 Public Finance, pages 7.8-10 to 11.	Yes	
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	Section 7.8.1.2 Population and Housing, pages 7.8-4 to 7.8-8. Section 7.8.3 Environmental Justice, pages 7.8-19 to 7.8-22.	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	Section 7.8.1.1 Economy: Labor Force, Employment, and Income, page 7.8-1. Table 7.8-1 Labor Force, Employment, and Industry: San Bernardino County, page 7.8-2. Table 7.8-2 Labor Force, Employment, and Industry: Riverside, Los Angeles, and Orange Counties, page 7.8-5.	Yes	

Adequacy Issue:	Adequate **X** Inadequate ___	**DATA ADEQUACY WORKSHEET**	Revision No. 1	Date May 21, 2007
Technical Area:	**Socioeconomics**	Project: San Gabriel Generating Station	Technical Staff:	Joseph Diamond Ph. D.
Project Manager:	Stan Yeh	Docket: 07-AFC-2	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) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	Section 7.8.2.3 Economic Impacts, Construction and Operation, pages 7.8-12 & 7.8-15. Table 7.8-2 Labor Force, Employment, and Industry: Riverside, Los Angeles, and Orange Counties, page 7.8-5. Table 7.8.3 Population Trends and Projections, page 7.8-6.	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing and current vacancy rate; and	Section 7.8.1.2 Population and Housing, AFC Supplement Replacement pages 7.8-4 to 7.8-8.	~~No~~ Yes	~~Please provide the vacancy rate for temporary housing such as hotel/motels.~~
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes for the duration of the project schedule.	Section 7.8.1.3 Public Services and Utilities, pages 7.8-8 to 10.	Yes	
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project (note year of estimate, model, if used, and appropriate sources), including:	Section 7.8.2 Environmental Consequences, AFC Supplement Replacement page 7.8-11&12. Section 7.8.2.3 Economic Impacts, AFC Supplement Replacement pages 7.8-12 to 7.8-16.	~~No~~ Yes	~~Please provide the year for the IMPLAN model economic impacts caused by the construction and operation of the project.~~

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Socioeconomics** Project: San Gabriel Generating Station Technical Staff: Joseph Diamond Ph. D.

Project Manager: Stan Yeh Docket: 07-AFC-2 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) (7) (B) (i)	An estimate of the number of workers to be employed each month by craft during construction, and for operations, an estimate of the number of permanent operations workers during a year;	Section 7.8.2.3 Economic Impacts, Construction, page 7.8-12. Table 7.8-6 Construction Employment by Trade, page 7.8-13. Section 7.8.2.3 Economic Impacts, Operation, page 7.8-15. Table 7.8-8 Plant Operation Workforce, page 7.8-15.	Yes	
Appendix B (g) (7) (B) (ii)	An estimate of the percentage of non-local workers who will relocate to the project area to work on the project;	Section 7.8.2.3 Economic Impacts Construction and Operation, pages 7.8-12&15. Section 7.8.2.4 Population and Housing Impacts, pages 7.8-16&17.	Yes	
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Section 7.8.2.4 Population and Housing Impacts, pages 7.8-16 and 17.	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	

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. Include response times to hospitals and for police, and emergency services. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operating phases;	Section 7.8.2.5 Public Services and Utilities, pages 7.8-17&18.	Yes	
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	Section 7.8.1.3 Public Services and Utilities, Schools, page 7.8-10. Section 7.8.2.5 Public Services and Utilities, Schools, page 7.8-17. Section 7.8.2.6 Fiscal Impacts, page 7.8-19.	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and separate estimates of the total operation payroll for permanent and short-term (contract) operations employees;	Section 7.8.2.3 Economic Impacts, Construction and Operation, pages 7.8-12 and 7.8-15.	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;	Same as above.	Yes	
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost (plant and equipment) of the project;	Section 7.8.2.3 Economic Impacts, Construction, page 7.8-12. Section 7.8.2.6 Fiscal Impacts, page 7.8-18.	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Socioeconomics** Project: San Gabriel Generating Station Technical Staff: Joseph Diamond Ph. D.

Project Manager: Stan Yeh Docket: 07-AFC-2 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) (7) (B) (x)	An estimate of sales taxes generated during construction and separately during an operational year of the project;	Section 7.8.2.6 Fiscal Impacts, AFC Supplement Replacement page 7.8-19.	~~No~~ Yes	~~Please provide an estimate of sales taxes generated during construction and separately during an operational year of the project.~~
Appendix B (g) (7) (B) (xi)	An estimate of property taxes generated during an operational year of the project; and	Section 7.8.2.6 Fiscal Impacts, page 7.8-18.	Yes	
Appendix B (g) (7) (B) (xii)	The expected direct, indirect, and induced income and employment effects due to construction, operation, and maintenance of the project.	Section 7.8.2.3 Economic Impacts Construction and Operation, pages 7.8-12 to 7.8-16.	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 7.8.6 Laws, Ordinances, Regulations, and Standards, page 7.8-23.	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 7.8.8 Permits Required and Permit Schedule, page 7.8-24.	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Socioeconomics** Project: San Gabriel Generating Station Technical Staff: Joseph Diamond Ph. D.

Project Manager: Stan Yeh Docket: 07-AFC-2 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 (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Section 7.8.7 Involved Agencies and Agency Contacts, page 7.8-23.	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 7.8.8 Permits Required and Permit Schedule, page 7.8-24.	Yes	

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. 7.10-1 Sec. 7.10 & 7.10.1 AFC pg. 7.10-24 & 25 Sec. 7.10.4	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.	AFC pg. 7.10-1 Sec. 7.10.1.1 Figure 7.10-1A AFC pg. 7.10-27 & 28 Sec. 7.10.5	Yes	
Appendix B (g) (5) (B)	If the proposed project including any linear facility is to be located within 20,000 feet of an airport runway that is at least 3,200 feet in actual length, or 5,000 feet of a heliport (or planned or proposed airport runway or an airport runway under construction, that is the subject of a notice or proposal on file with the Federal Aviation Administration), discuss the project's compliance with the applicable sections of the current Federal Aviation Regulation Part 77 – Objects Affecting Navigable Airspace, specifically any potential to obstruct or impede air navigation generated by the project at operation; such as, a thermal plume, a visible water vapor plume, glare, electrical interference, or surface structure height. The discussion should include a map at a scale of 1:24,000 that displays the airport or airstrip runway configuration, the proposed power plant site and related facilities.	AFC pg. 7.10-18 & 19 Sec. 7.10.2.2 Pg. 7.10-28, Sec. 7.10.5.1 Figure 7.10-1B	Yes	

Adequacy Issue:	Adequate **X** Inadequate ___	**DATA ADEQUACY WORKSHEET**	Revision No. 1	Date May 21, 2007
Technical Area:	**Traffic and Transportation**	Project: San Gabriel Generating Station	Technical Staff:	David Flores
Project Manager:	Stan Yeh	Docket: 07-AFC-2	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) (C)	An identification, on topographic maps at a scale of 1:24,000, and a description of existing and planned roads, rail lines~~,~~ (including light rail), bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	Figure 7.10-1B AFC pg. 7.10-1 through 6 Sec. 7.10.1.1	Yes	
Appendix B (g) (5) (C) (i)	Road classification and design capacity;	AFC pg. 7.10-1 & 2 Sec. 7.10.1.1 Table 7.10-2 & 3 AFC pg. 7.10-4 Figure 7.10-2	Yes	
Appendix B (g) (5) (C) (ii)	Current daily average and peak traffic counts;	AFC pg. 7.10-5 Table 7.10-4 AFC pg. 7.10-2 Sec. 7.10.1.1 Figure 7.10-3 through 12 Appendix Q AFC Supplement Response to CEC staff data adequacy comments-dated May 2007.	~~No~~ Yes	~~Please provide current daily average traffic counts.~~
Appendix B (g) (5) (C) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	AFC pg. 7.10-19 through 25 –Sec. 7.10.2.1 Tables 7.10-9 through 12 & Tables 7.10-15 through 18	Yes	
Appendix B (g) (5) (C) (iv)	Weight and load limitations;	AFC pg. 7-10-30 Sec.7.10.5.2	Yes	
Appendix B (g) (5) (C) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	AFC pg. 7.10-2 Sec. 7.10.1.1 Table 7.10-4	Yes	
Appendix B (g) (5) (C) (vi)	An identification of any road features affecting public safety.	AFC pg. 7.10-6 & 7 Sec. 7.10.1.1 Pg. 7.10-18 Sec. 7.10.2.2	Yes	

Adequacy Issue:	Adequate **X** Inadequate ___	**DATA ADEQUACY WORKSHEET**	Revision No. 1	Date May 21, 2007
Technical Area:	**Traffic and Transportation**	Project: San Gabriel Generating Station	Technical Staff:	David Flores
Project Manager:	Stan Yeh	Docket: 07-AFC-2	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) (D)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified in subsection (g)(5)(C). Also include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(C).	AFC pg. 7.10-11 through 23 Sec. 7.10.2.2 Table 7.10-9 through 12 Table 7.10-15 through 18 AFC Supplement Response to CEC staff data adequacy comments-dated May 2007.	~~No~~ Yes	~~The AFC provided traffic counts, levels of service, and traffic/ truck mix based on peak hourly volumes for roadways in the project area. Please provide estimated changes to daily average traffic counts and levels of service as a result of the construction and operation of the proposed project.~~
Appendix B (g) (5) (E)	A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.	AFC pg. 7.10-23 Sec. 7.10.2.4	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	AFC pg. 7.10-25 through 30 Table 7.10-21	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Traffic and Transportation** Project: San Gabriel Generating Station Technical Staff: David Flores

Project Manager: Stan Yeh Docket: 07-AFC-2 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 (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	AFC pg. 7.10-32 Sec. 7.10.7 AFC pg. 7.10-31 Sec.7.10.6	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	AFC pg. 7.10-31 & 32 Sec.7.10.6	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	AFC pg. 7.10-32 Sec. 7.10.7	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Transmission System Engineering**

Project: San Gabriel Generating Station

Technical Staff: Laiping Ng

Project Manager: Stan Yeh

Docket: 07-AFC-2

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) (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 1.0 Page 1-1 to 1-5	Yes	
Appendix B (h) (2) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.	Section 4.0 Page 4-1 to 4-2	Yes	

Adequacy Issue: Adequate **X** Inadequate ___

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Transmission System Engineering**

Project: San Gabriel Generating Station

Technical Staff: Laiping Ng

Project Manager: Stan Yeh

Docket: 07-AFC-2

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; and	Section 1.10 Page 1-5 Section 4.0 Page 4-1 to 4-2 AFC Supplement Replacement page 4-2 AFC Supplement Replacement Figures 2.5-7 (Sheets 2-4) and Figure 2.5-4	~~No~~ Yes	~~1. Provide a one-line diagram for the new Rancho Vista Substation before the interconnection of the SGGS.~~ ~~2. Provide a one-line diagram for the new Rancho Vista Substation after the addition of the SGGS. Show all equipment ratings including breakers, disconnect switches, buses, and etc. which are required for the addition of the SGGS.~~ ~~3. Provide a one-line diagram for the SGGS generation switchyard with the appropriate design and showing all equipment for generators' interconnection with the switchyard including any bus duct connectors, switchgear, disconnect switches, generator step-up transformers, breakers AND their respective ratings.~~
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 4.2 Page 4-1	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Transmission System Engineering**

Project: San Gabriel Generating Station

Technical Staff: Laiping Ng

Project Manager: Stan Yeh

Docket: 07-AFC-2

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) (E)	A completed System Impact Study or signed System Impact Study Agreement with the California Independent System Operator and proof of payment. When not connecting to the California Independent System Operator controlled grid, provide the executed System Impact Study agreement and proof of payment to the interconnecting utility. If the interconnection and operation of the proposed project will likely impact an transmission system that is not controlled by the interconnecting utility (or California Independent System Operator), provide evidence of a System Impact Study or agreement and proof of payment (when applicable) with/to the impacted transmission owner or provide evidence that there are no system impacts requiring mitigation.	Section 4.5 Page 4-2 Appendix I	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table 2.10-1 Page 2-47 to 2-52 <u>AFC Supplement Replacement page 2-46, 2-52, and replacement Table 2.10-1</u>	~~No~~ <u>Yes</u>	~~Missing California Public Utility Commission LORS from the table. Also need statements indicate the proposed project will comply with the LORS.~~

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Transmission System Engineering**

Project: San Gabriel Generating Station

Technical Staff: Laiping Ng

Project Manager: Stan Yeh

Docket: 07-AFC-2

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) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 2.11 Page 2-53 to 2-54	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	N/A	N/A	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 4.5 Page 4-2	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Water Resources** Project: San Gabriel Generating Station Technical Staff: Cheryl Closson

Project Manager: Stan Yeh Docket: 07-AFC-2 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.	Pages 7.14-10 through 22; Sections 7.14.1.4 through 7.14.4.2.	Yes	
Appendix B (g) (14) (A)	All the information required to apply for the following permits, if applicable, including:			
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; National Pollutant Discharge Elimination System Permit; and/or a Section 401 Certification or Waiver from the appropriate Regional Water Quality Control Board (RWQCB);	Pages 7.2-6, 15, 19, 22, 24 and 26 and 7.14-16, 17, and 21 through 26; Sections 7.2.1.4, 7.2.2.1, 7.2.4.1, 7.2.5, 7.2.5.1, 7.2.7, 7.14.1.5, 7.14.2.2, 7.14.2.3, 7.14.5 through 7.14.7; and Tables 7.2-6 and 7.14-10.	Yes	
Appendix B (g) (14) (A) (ii)	Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;	Pages 7.14-19 and 21 through 27; Sections 7.14.2.2 through 7.14.7; and Table 7.14-10.	Yes	
Appendix B (g) (14) (A) (iii)	Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	Pages 7.2-6, 15, 19, 22, 24 and 26 and 7.14-21; Sections 7.2.1.4, 7.2.2.1, 7.2.4.1, 7.2.5, 7.2.5.1, 7.2.7, 7.14.2.2 and 7.14.2.3; and Table 7.2-6.	Yes	
Appendix B (g) (14) (A) (iv)	Underground Injection Control Permit(s) from the U.S. Environmental Protection Agency, California Division of Oil and Gas, and RWQCB.	N/A		

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Water Resources** Project: San Gabriel Generating Station Technical Staff: Cheryl Closson

Project Manager: Stan Yeh Docket: 07-AFC-2 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) (B)	A detailed description of the hydrologic setting of the project. The information shall include a narrative discussion and on maps at a scale of 1:24,000 (or appropriate scale approved by staff), describing the chemical and physical characteristics of the following nearby water bodies that may be affected by the proposed project:	Pages 7.14-1 through 10; Sections 7.14.1.1 through 7.14.1.3; and Figures 7.14-1 through 5.	Yes	
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Pages 7.14-1 through 4; Section 7.14.1.1; and Figure 7.14-2.	Yes	
Appendix B (g) (14) (B) (ii)	Surface water bodies;	Pages 7.14-4 through 8; Section 7.14.1.2; and Figures 7.14-1 and 3.	Yes	
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;	Page 7.14-18; Section 7.14.1.6; and Figure 7.14-5.	Yes	
Appendix B (g) (14) (B) (iv)	Flood control facilities (existing and proposed); and	Pages 7.14-4 through 6, and 18 through 21; Sections 7.14.1.2, 7.14.1.6, 7.14.2.2, and 7.14.2.3; and Figures 7.14-1, 2, 4 and 5.	Yes	
Appendix B (g) (14) (B) (v)	Groundwater wells within ½ mile if the project will include pumping.	Page 7.14-2; Section 7.14.1.1.	Yes	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	Pages 7.14-2 through 18; Sections 7.14.1 through 7.14.1.5.	Yes	
Appendix B (g) (14) (C) (i)	Source(s) of the primary and back-up water supplies and the rationale for their selection;	Pages 7.14-10 through 13; Section 7.14.1.4.	Yes	

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) (ii)	The expected physical and chemical characteristics of the source and discharge water(s) including identification of both organic and inorganic constituents before and after any project-related treatment. For source waters with seasonal variation, provide seasonal ranges of the expected physical and chemical characteristics. Provide copies of background material used to create this description (e.g., laboratory analysis);	Pages 7.14-2 through 16; Sections 7.14.1.1 through 7.14.1.5; and Tables 7.14-1 and 8.	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;	Pages 7.14-10 through 18; Sections 7.14.1.4 and 5; and Table 7.14.6.	Yes	
Appendix B (g) (14) (C) (iv)	A detailed description of all facilities to be used in water conveyance (from primary source to the power plant site), water treatment, and wastewater discharge. Include a water mass balance diagram;	Pages 2-12 through 19, and 7.14-10 through 18. Sections 2.5.6 through 2.5.7.6 and 7.14.1.4 and 5; and Table 2.5-8.	Yes	
Appendix B (g) (14) (C) (v)	For all water supplies intended for industrial uses to be provided from public or private water purveyors, a letter of intent or will-serve letter indicating that the purveyor is willing to serve the project, has adequate supplies available for the life of the project, and any conditions or restrictions under which water will be provided. In the event that a will-serve letter or letter of intent can not be provided, identify the most likely water purveyor and discuss the necessary assurances from the water purveyor to serve the project;	AFC Volume II; Appendix J-1.	Yes	

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) (vi)	For all water supplied which necessitates transfers and/or exchanges at any point, identify all parties and contracts/agreements involved, the primary source for the transfer and/or exchange water (e.g., surface water, groundwater), and provide the status of all appropriate agencies' approvals for the proposed use, environmental impact analysis on the specific transfers and/or exchanges required to obtain the proposed supplies, a copy of any agency regulations that govern the use of the water, and an explanation of how the project complies with the agency regulation(s);	N/A	N/A	
Appendix B (g) (14) (C) (vii)	Provide water mass balance and heat balance diagrams for both average and maximum flows that include all process and/or ancillary water supplies and wastewater streams. Highlight any water conservation measures on the diagram and the amount that they reduce water demand; and	Pages 2-3 through 6 and 12 through 17; Sections 2.5.2 and 2.5.6;Tables 2.5-1 through 2.5-4 and 2.5-8; and Figures 2.5-5 and 8.	Yes	

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) (viii)	For all projects which have a discharge, provide a copy of the will-serve letter, permit or contract with the public or private entity that will be accepting the wastewater and contact storm water from the project. The letter, permit or contract, if possible, shall identify the discharge volumes and the chemical or physical characteristics under which the wastewater and contact storm water will be accepted. In the event that a will-serve letter, permit, or contract cannot be provided, identify the most likely wastewater/storm water entity and discuss why the applicant was unable to secure the necessary assurances to serve the project's wastewater/storm water needs. Also, discuss the term of the wastewater service to the project, whether the wastewater entity has adequate permit capacity for the volume of wastewater from the project and has adequate permit levels for the chemical/physical characteristics of the project's wastewater and storm water for the life of the project, and any issues or conditions/restrictions the wastewater entity may impose on the project.	AFC Volume II; Appendix J-2.	Yes	
Appendix B (g) (14) (D)	Identify all project elements associated with stormwater drainage, including a description of the following:			
Appendix B (g) (14) (D) (i)	Monthly and/or seasonal precipitation and stormwater runoff and drainage patterns for the proposed site and surrounding area that may be affected by the project's construction and operation;	Pages 7.14-4 through 10; Sections 7.14.1.2 through 7.14.1.3; and Tables 7.14-2 and 4.	Yes	
Appendix B (g) (14) (D) (ii)	Drainage facilities and the design criteria used for the plant site and ancillary facilities, including but not limited to capacity of designed system, design storm, and estimated runoff;	Page 2-28; Section 2.6.7; Figures 2.6-1, 2, and 4; and Appendix G in AFC Volume II.	Yes	

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (D) (iii)	All assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post construction; and	Pages 2-28 and 7.14-21; Sections 2.6.7 and 7.14.2.3; and AFC Volume II, Appendices G and H.	Yes	
Appendix B (g) (14) (D) (iv)	A copy of applicable regional and local requirements regulating the drainage systems, and a discussion of how the project's drainage design complies with these requirements.	Pages 7.14-21 and 22; Sections 7.14.2.2 through 7.14.4.2; and AFC Volume II, Appendix H.	Yes	
Appendix B (g) (14) (E)	An impacts analysis of the proposed project on water resources and a discussion of conformance with water-related LORS and policy. This discussion shall include:	Pages 7.14-18 through 28; Sections 7.14.2 through 7.14.7.	Yes	
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source, including, but not limited to, water availability for other uses during construction or after the power plant begins operation, consistency of the water use with applicable RWQCB basin plans or other applicable resource management plans, and any changes in the physical or chemical conditions of existing water supplies as a result of water use by the power plant;	Pages 7.14-10 through 28; Sections 7.14.1.4 through 7.14.7.	Yes	
Appendix B (g) (14) (E) (ii)	If the project will pump groundwater, an estimation of aquifer drawdown based on a computer modeling study shall be conducted by a professional geologist and include the estimated drawdown on neighboring wells within 0.5 mile of the proposed well(s), any effects on the migration of groundwater contaminants, and the likelihood of any changes in existing physical or chemical conditions of groundwater resources shall be provided;	AFC Supplement Replacement Page 7.14-19	~~No~~ Yes	~~An estimation of aquifer drawdown expected to result from pumping groundwater for potable and reservoir make-up uses, based on a computer modeling study, prepared by a professional geologist.~~

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 construction activities and plant operation on water quality and to what extent these effects could be mitigated by best management practices;	Pages 7.14-18, 19, 21 and 22; Sections 7.14.2 through 7.14.4.2.	Yes	
Appendix B (g) (14) (iv)	If not using a zero liquid discharge project design for cooling and process waters, include the effects of the proposed wastewater disposal method on receiving waters, the feasibility of using pre-treatment techniques to reduce impacts, and beneficial uses of the receiving waters. Include an explanation why the zero liquid discharge process is "environmentally undesirable," or "economically unsound;"	Pages 7.14-4, 9, and 13 through 21; Sections 7.14.1.1, 7.14.1.2, 7.14.1.5, 7.14.2.1, and 7.14.2.2.	Yes	
Appendix B (g) (14) (v)	If using fresh water, include a discussion of the cumulative impacts, alternative water supply sources and alternative cooling technologies considered as part of the project design. Include an explanation of why alternative water supplies and alternative cooling are "environmentally undesirable," or "economically unsound; "	Pages 7.14-21 and 8-2 through 9; Sections 7.14.3 and 8.3 through 8.11.	Yes	
Appendix B (g) (14) (vi)	The effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones; and	Page 7.14-21; Section 7.14.2.3.	Yes	
Appendix B (g) (14) (vii)	All assumptions, evidence, references, and calculations used in the analysis to assess these effects.	Pages 7.14-1 through 29; Section 7.14; AFC Volume II, Appendices G and H.	Yes	

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date May 21, 2007

Technical Area: **Water Resources** Project: San Gabriel Generating Station Technical Staff: Cheryl Closson

Project Manager: Stan Yeh Docket: 07-AFC-2 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 (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Page 7.14-24; Section 7.14.5; and Table 7.14-10.	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Page 7.14-24; Section 7.14.5; and Table 7.14-10.	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Page 7.14-26; Section 7.14.6.	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Pages 7.14-27 and 28; Section 7.14.7.	Yes	