

Memorandum

To: Jackalyne Pfannenstiel, Chairman
 James D. Boyd, Vice Chair
 Arthur H. Rosenfeld, Ph.D., Commissioner
 Jeffrey Byron, Commissioner
 Karen Douglas, Commissioner

Date: October 2, 2008
Telephone: (916) 654-4996

From: California Energy Commission – Melissa Jones
 1516 Ninth Street
 Sacramento, CA 95814-5512
 Executive Director

*Terrence J. Brim
for*

DOCKET	
08-AFC-9	
DATE	OCT 0 2 2008
RECD.	OCT 0 2 2008

Subject: PALMDALE HYBRID POWER PROJECT, REVISED DATA ADEQUACY RECOMMENDATION (08-AFC-9)

Staff's September 3, 2008 initial data adequacy review of city of Palmdale's (applicant's) Palmdale Hybrid Power Project (PHPP) Application for Certification (AFC) determined that it did not meet all of 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 nine of 23 areas: Biological Resources, Cultural Resources, Project Overview, Socioeconomics, Soils, Traffic & Transportation, Transmission System Design, Visual Resources, and Water Resources. The Energy Commission accepted staff's initial data adequacy recommendation at its September 10, 2008 Business Meeting.

The applicant provided an AFC Supplement on October 1, 2008. Staff has reviewed the supplemental information and believes the AFC now meets the above listed requirements in all 23 technical disciplines. Attached is a summary table and revised data adequacy worksheets for the nine (9) technical disciplines previously determined to be data inadequate reflecting that the supplemental information submitted by the applicant achieves AFC data adequacy.

The applicant submitted its original Application for Certification (AFC) on August 4, 2008 for the proposed PHPP in the city of Palmdale, adjacent to Los Angeles/Palmdale Regional Airport and Air Force Plant 42 in Los Angeles County, California. The PHPP would be a hybrid of natural gas-fired combined cycle generating equipment integrated with solar thermal generating equipment and would have a net capacity of 617 megawatts (MW). Primary equipment for the generating facility would include two natural gas-fired combustion turbine-generators, two heat recovery steam generators, one steam turbine-generator and 250 acres of parabolic solar-thermal collectors capable of contributing up to 50 MW of the steam turbine-generator's output.

At the Energy Commission's business meeting on October 8, 2008, I will recommend that the Energy Commission accept the AFC as data adequate. Pursuant to California Code of Regulations, Title 20, Section 1709 (c), if the Energy Commission accepts staff's recommendation, the Energy Commission may deem the AFC, with the supplemental information, as complete, and appoint a Committee. If you have any questions, please contact John Kessler, staff's Project Manager, at (916) 654-4679.

Attachment

Attachment A
Overview of Energy Commission Staff's
Revised Data Adequacy Determination
Palmdale Hybrid Power Project
08-AFC-9

Technical Area	Attachment B Page No.	Adequate?
BIOLOGICAL RESOURCES.....	4	YES
CULTURAL RESOURCES.....	13	YES
PROJECT OVERVIEW.....	20	YES
SOCIOECONOMICS	26	YES
SOILS	32	YES
TRAFFIC AND TRANSPORTATION	35	YES
TRANSMISSION SYSTEM DESIGN	39	YES
VISUAL RESOURCES	43	YES
WATER RESOURCES	48	YES

ATTACHMENT B

**ENERGY COMMISSION STAFF'S
Revised Data Adequacy Recommendation**

**Palmdale 2 Hybrid Power Project
08-AFC-9**

October 2, 2008

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Misa Milliron
 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, Section 5.3.2, pgs. 5.3-7 to 5.3-8 and pgs. 5.3-12 to 5.3-28 Direct, indirect, and cumulative impacts: Section 5.3.3, pgs 5.3-37 to 5.3-50 Mitigation measures: Section 5.3.4, pgs 5.3-50 to 5.3-55 Monitoring plans: Section 5.3.4, pgs 5.3-50 to 5.3-55	Yes Yes Yes Yes	
Appendix B (g) (13) (A)	A regional overview and discussion of terrestrial and aquatic biological resources, with particular attention to sensitive biological resources within ten (10) miles of the project. Include a map at a scale of 1:100,000 (or other suitable scale) showing sensitive biological resource location(s) in relation to the project site and related facilities and any boundaries of a local Habitat Conservation Plan or similar open space land use plan or designation. Sensitive biological resources include the following:	Regional overview: Section 5.3.2, pgs. 5.3-7 to 5.3-36 Regional vicinity maps with biological resources: Figs. 5.3-2 to 5.3-7	Yes Yes	
Appendix B (g) (13) (A) (i)	Species listed under state or federal Endangered Species Acts;	Section 5.3.2, pgs. 5.3-18 to 5.3-36; Table 5.3-5, pgs. 5.3-29 to 5.3-36	Yes	
Appendix B (g) (13) (A) (ii)	Resources defined in sections 1702(q) and (v) of Title 20 of the California Code of Regulations;	Section 5.3.2, pgs. 5.3-7 to 5.3-36	Yes	
Appendix B (g) (13) (A) (iii)	Species identified as state Fully Protected;	AFC Supplement, Section 5.3	No Yes	Please identify which species, if any, discussed in the AFC are designated as Fully Protected by updating Table 5.3-5 with this status.

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Appendix B (g) (13) (A) (iv)	Species covered by Migratory Bird Treaty Act;	Section 5.3.2, pgs. 5.3-7 to 5.3-36; Table 5.3-5, pgs. 5.3-32 and 5.3-33	Yes	
Appendix B (g) (13) (A) (v)	Species and habitats identified by local, state, and federal agencies as needing protection, including but not limited to those identified by the California Natural Diversity Database, or where applicable, in Local Coastal Programs or in relevant decisions of the California Coastal Commission; and	Section 5.3.2, pgs. 5.3-9 to 5.3-28; Figs. 5.3-4 to 5.3-7; Table 5.3-5, pgs. 5.3-29 to 5.3-36	Yes	
Appendix B (g) (13) (A) (vi)	Fish and wildlife species that have commercial and/or recreational value.	Section 5.3.2, pgs. 5.3-17	Yes	
Appendix B (g) (13) (B)	Include a list of the species actually observed and those with a potential to occur within 1 mile of the project site and 1,000 feet from the outer edge of linear facility corridors. Maps or aerial photographs shall include the following:	Actually observed: Appendix H, Attachments 5 and 6 Potential to occur: Section 5.3, Table 5.3-5, pgs. 5.3-29 to 5.3-36	Yes Yes	
Appendix B (g) (13) (B) (i)	Detailed maps at a scale of 1:6,000 or color aerial photographs taken at a recommended scale of 1 inch equals 500 feet (1:6,000) with a 30 percent overlap that show the proposed project site and related facilities, biological resources including, but not limited to, those found during project-related field surveys and in records from the California Natural Diversity Database, and the associated areas where biological surveys were conducted. Label the biological resources and survey areas as well as the project facilities;	Project site and facilities: Fig. 5.3-1 Biological resources: Figs. 5.3-2 to 5.3-7 Areas surveyed: Fig. 5.3-1	Yes; maps at appropriate, approved scale Yes Yes	

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Appendix B (g) (13) (B) (ii)	A depiction of the extent of the thermal plume at the surface of the water if cooling water is proposed to be discharged to a water source. Provide the location for the intake and discharge structures on an aerial photograph(s) or detailed maps. Water sources include, but are not limited to, waterways, lakes, impoundments, oceans, bays, rivers, and estuaries; and		N/A (zero liquid discharge design)	
Appendix B (g) (13) (B) (iii)	An aerial photo or wetlands delineation maps at a scale of (1:2,400) showing any potential jurisdictional and non-jurisdictional wetlands delineated out to 250 feet from the edge of disturbance if wetlands occur within 250 feet of the project site and/or related facilities that would be included with the US Army Corps of Engineers Section 404 Permit application. For projects proposed to be located within the coastal zone, also provide aerial photographs or maps as described above that identify wetlands as defined by the Coastal Act.	Section 5.3, Fig. 5.3-3; Vol. II, Appendix H, Attachment 3	Yes	
Appendix B (g) (13) (C)	A discussion of the biological resources at the proposed project site and related facilities. Related facilities include, but are not limited to, laydown and parking areas, gas and water supply pipelines, transmission lines, and roads. The discussion shall address the distribution of vegetation community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and other appropriate biological resources including the following:	Section 5.3.2, pgs. 5.3-9 to 5.3-28	Yes	
Appendix B (g) (13) (C) (i)	A list of all the species actually observed;	Appendix H, Attachments 5 and 6	Yes	

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Appendix B (g) (13) (D) cont.		Resumes: Appendix H, Attachment 1 <u>AFC Supplement, Section 5.3, Attachment Bio-3.</u>	No <u>Yes</u>	Please submit resumes for rare plant/drainage surveyors Green, Rajtaniak, Trumbo, and Rado.
Appendix B (g) (13) (D) (i)	Current biological resources surveys conducted using appropriate field survey protocols during the appropriate season(s). State and federal agencies with jurisdiction shall be consulted for field survey protocol guidance prior to surveys if a protocol exists;	Protocol surveys: Section 5.3.2.4, pg 5.3-9 to 5.3-12 Appropriate season: Appendix H, Table 4, pgs. 44 and 45 <u>AFC Supplement, Section 5.3, Table 5.3-5</u>	Yes No <u>Yes</u>	Provide survey dates for each sensitive species/resource (e.g., rare plants—specific dates, burrowing owl—specific dates, Mohave ground squirrel—specific dates, general wildlife/vegetation—specific dates, etc.).
Appendix B (g) (13) (D) (ii)	If cooling water is proposed to be taken directly from or discharged to a surface water feature source, seasonal aquatic resource studies and surveys shall be conducted. Aquatic resource survey data shall include, but is not limited to, fish trawls, ichthyoplankton and benthic sampling, and related temperature and water quality samples. For new projects or repower projects anticipating a change in cooling water flows, sampling protocols shall be provided to the Energy Commission staff for review and concurrence prior to the start of sampling. For repower projects not anticipating a change in cooling water flows, this information shall be provided in the form of the most recent federal Clean Water Act 316(b) impingement and entrainment impact study completed within five (5) years of the AFC filing date; and		N/A	

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Appendix B (g) (13) (D) (iii)	If the project or any related facilities could impact a jurisdictional or non-jurisdictional wetland, provide completed Army Corps of Engineers wetland delineation forms and/or determination of wetland status pursuant to Coastal Act requirements, name(s) and qualifications of biologist(s) completing the delineation, the results of the delineation and a table showing wetland acreage amounts to be impacted.	Preliminary delineation report, results, acreage table: Appendix H, Attachment 3 USACE forms: <u>AFC Supplement, Section 5.3</u> Biologist names/resumes: Appendix H, pg. 13 <u>AFC Supplement, Section 5.3, Attachment Bio-3.</u>	Yes No Yes No Yes	Please submit completed USACE delineation forms with field data for the drainages and consult with USACE on any additional data forms required (re: Rapanos decision). Please submit resumes for drainage surveyors Green, Rajtaniak, Trumbo, and Rado.
Appendix B (g) (13) (E)	Impacts discussion of the following:	--	--	
Appendix B (g) (13) (E) (i)	All impacts (direct, indirect, and cumulative) to biological resources from project site preparation, construction activities, plant operation, maintenance, and closure. Discussion shall also address sensitive species habitat impacts from cooling tower drift and air emissions;	Impacts: Section 5.3.3, pgs. 5.3-37 to 5.3-50 Cooling tower drift: Section 5.3.3.2, pg. 5.3-48 Air emissions: Section 5.3.3.2, pg. 5.3-48	Yes Yes Yes	

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Appendix B (g) (13) (E) (ii)	facilities that propose to take water directly from, and/or discharge water to surface water features, daytime and nighttime impacts from the intake and discharge of water during operation, water velocity at the intake screen, the intake field of influence, impingement, entrainment, and thermal discharge. Provide a discussion of the extent of the thermal plume, effluent chemicals, oxygen saturation, intake pump operations, and the volume and rate of cooling water flow at the intake and discharge location; and		N/A	
Appendix B (g) (13) (E) (iii)	Methods to control biofouling and chemical concentrations, and temperatures that are currently being discharged or will be discharged to receiving waters.		N/A	
Appendix B (g) (13) (F)	A discussion of all feasible mitigation measures including, but not limited to the following:	--	--	
Appendix B (g) (13) (F) (i)	All measures proposed to avoid and/or reduce adverse impacts to biological resources;	Section 5.3.4, pgs. 5.3-50 to 5.3-55	Yes	
Appendix B (g) (13) (F) (ii)	All off-site habitat mitigation and habitat improvement or compensation, and an identification of contacts for compensation habitat and management;	Section 5.3.4, pgs. 5.3-52 and 5.3-55; Appendix H, pgs. 74 and 76	Yes	
Appendix B (g) (13) (F) (iii)	Design features to better disperse or eliminate a thermal discharge;		N/A	
Appendix B (g) (13) (F) (iv)	All measures proposed to avoid or minimize adverse impacts of cooling water intake. This shall include a Best Technology Available (BTA) discussion. If BTA is not being proposed, the rationale for not selecting BTA must be provided; and		N/A	

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Appendix B (g) (13) (F) (v)	Educational programs to enhance employee awareness during construction and operation to protect biological resources.	Section 5.3.4, pgs. 5.3-50 to 5.3-55	Yes	
Appendix B (g) (13) (G)	A discussion of compliance and monitoring programs to ensure the effectiveness of impact avoidance and mitigation measures incorporated into the project.	Section 5.3.4, pgs. 5.3-50 to 5.3-55	Yes	
Appendix B (g) (13) (H)	Submit copies of any preliminary correspondence between the project applicant and state and federal resource agencies regarding whether federal or state permits from other agencies such as the U. S. Fish and Wildlife Service, the National Marine Fisheries Service, the U.S. Army Corps of Engineers, the California Department of Fish and Game, and the Regional Water Quality Control Board will be required for the proposed project.	<u>AFC Supplement, Section 5.3</u>	<u>No</u> <u>Yes</u>	The AFC lacks copies of preliminary agency correspondence. Please contact CDFG, USFWS, the city, the county, USACE, and RWQCB to discuss potential biological resource concerns, impacts, mitigation, whether separate local, state, or federal permits will be required. Submit detailed records of conversations. Also, include the agency personal communications cited in the AFC (i.e., Larkin 2008 and Trinh 2008) in the submittal.
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.3.1, Table 5.3-1, pgs. 5.3-1 and 5.3-2	Yes	

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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 5.3.1.4, table 5.3-2, pg. 5.3-7 <u>AFC Supplement, Section 5.3</u>	No <u>Yes</u>	Add the USACE, RWQCB, and county to table 5.3-2.
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Section 5.3.1.4, table 5.3-2, pg. 5.3-7 <u>AFC Supplement, Section 5.3</u>	No <u>Yes</u>	Include contact information for the appropriate USACE, RWQCB, and county staff.
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 5.3.1.5, Table 5.3-3, pg. 5.3-7 <u>AFC Supplement, Section 5.3</u>	No <u>Yes</u>	Provide approximate month and year for each submittal, particularly the federal Biological Assessment.

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: John Kessler

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 Technical Staff: Beverly E. Bastian
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Appendix B (g) (1)	Provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Existing site conditions: Vol. 1, p. 2-3 Impacts due to project: Vol. 1, pp. 5.4-34–5.4-37; Vol. 2, App. I, pp. 76-80 Mitigation measures for known impacts: Vol. 1, p. 5.4-37 Effectiveness of the proposed measures: Vol. 1, p. 5.4-37 Any monitoring plans proposed to verify the effectiveness of the mitigation: Vol. 1, pp. 5.4-37–5.4-38	Yes Yes Yes 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. 5.4-9–5.4-20	Yes	
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 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, pp. 5.4-20–5.4-21 Cultural resources listed under a city or county ordinance: Vol. 1, p. 5.4-30 Cultural resources recognized by local societies: Vol. 2, App. I, pp. 51-53	Yes Yes Yes	

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Appendix B (g) (2) (B) cont.		Names/quals for literature searchers/directors: <u>Vol. 2, App. I (confidential version), Attachment 6</u>	No <u>Yes</u>	Applicant needs to provide the name(s) and qualifications of person(s) doing the literature search to the AFC, the Archaeology Technical Report, and the Built-Environment Technical Report.
Appendix B (g) (2) (C)	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.	<p>DPR 523s for known resources <u>AFC Supplement, Confidential Filing of 9/18/08</u></p> <p>Map of literature search area with past surveys and CHRIS #s <u>Vol. 2, App. I (confidential version), Attachment 8</u></p> <p>CHRIS reports <u>Vol. 2, App. I (confidential version), Attachment 10</u></p>	<p>No <u>Yes</u></p> <p>No <u>Yes</u></p> <p>No <u>Yes</u></p>	<p>Applicant needs to provide, under confidential cover, copies of DPR 523 forms for 71 recorded archaeological resources (App. I, p. 42).</p> <p>Applicant also needs to provide, NOT under confidential cover, copies of DPR 523 forms (or the local equivalent) for 44 historic structures recorded at the SCCIC (App. I, p. 46); for 19 historic structures listed in the Los Angeles County Historic Property Data File (App. I, p. 49); and 13 historic structures on the Palmdale General Plan list of potential historic structures (App. I, p. 50).</p> <p>Applicant needs to provide a copy of USGS 7.5' quadrangle map(s) of the literature search area legibly delineating the coverage of past cultural resources surveys, labeled with the corresponding CHRIS survey report numbers.</p> <p>Applicant needs to provide, under confidential cover, copies of 32 technical reports obtained from the CHRIS, whose survey coverage is wholly or partly within 0.25 mile of the area newly surveyed for the project (App. I, Table 3) and which produced positive results, or which report on any archaeological excavations or built-environment surveys within the one-mile-radius literature search area. Required CHRIS report copies include: Nos. LA 0017, LA 0249, LA 0410, LA 0703, LA 1422, LA 1511, LA 1627, LA 1732, LA 1792, LA 1799,</p>

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Appendix B (g) (2) (C) cont.				LA 1857, LA 1909, LA 1938, LA 1959, LA 2088, LA 2172, LA 2837, LA 3017, LA 3537, LA 3987, LA 4008, LA 4069, LA 4141, LA 4329, LA 4464, LA 6671, LA 6706, LA 7177, LA 7200, LA 7991, LA8427, LA 8957
	<p>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.</p> <p>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</p>	<p>Qualifications for archaeological surveyors or directors <u>Vol. 2, App. I (confidential version), Attachment 6</u></p> <p>Qualifications for built-environment surveyors or directors <u>AFC Supplement, Section 5.4</u></p> <p>Project-sponsored survey coverage, archaeology: Vol. 1, Table 5.4-3; Vol. 2, App. I, Figure 4</p>	<p>No <u>Yes</u></p> <p>No <u>Yes</u></p> <p>Yes</p>	<p>Applicant needs to provide the name(s) and qualifications of person(s) conducting the project-sponsored archaeological survey.</p> <p>Applicant needs to provide the name(s) and qualifications of person(s) conducting the project-sponsored built-environment survey. If an architectural historian meeting the Secretary of the Interior's Professional Standards did not conduct the built-environment survey discussed in the AFC and the cultural resources technical report, the applicant needs to have a qualified architectural historian survey the project site and the project linear facilities, plus an area 0.5 mile out from the proposed project site and from the proposed transmission-line route for structures, districts, and cultural landscapes that appear older than 45 years and record any such on DPR 523 Primary and Building, Structure, and Object forms.</p>

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Appendix B (g) (2) (C) cont	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.	Project-sponsored survey coverage, built environment <u>AFC Supplement, Section 5.4</u>	No <u>Yes</u>	Applicant needed to conduct built-environment survey 0.5 miles to either side of the transmission line route in rural areas. Table 5.4-3 indicates the survey coverage was limited to 0.25 miles to either side of the proposed transmission line, in whole or in part. Applicant needs to have a qualified architectural historian survey 0.5 miles to either side of the proposed transmission line route in rural areas for built-environment resources 45 years of age or older whose integrity of setting and feeling could be impacted by the proposed project.
	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).	Technical report for project-sponsored archaeological survey: Vol. 2, App. I Technical report for project-sponsored built-environment survey <u>AFC Supplement, Section 5.4, Attachment Cul-3.</u>	Yes No <u>Yes</u>	Applicant needs to provide, NOT under confidential cover, a Built-Environment Technical Report by a qualified architectural historian on the methods and results of the project-sponsored built-environment survey.
	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: <u>AFC Supplement, Section 5.4, Attachment Cul-1.</u>	No <u>Yes</u>	Applicant needs to provide a revised Section 5.4 of the AFC, to include the report of a qualified architectural historian, with the methods and findings from the project-sponsored built-environment survey.
Appendix B (g) (2) (C) (i)	The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);	Summary of the prehistory, ethnology, and history: Vol. 2, App. I, pp. 6-28 Literature search results: Vol. 1, pp. 29-50	Yes Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: John Kessler

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 Technical Senior: Rick York

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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;	Archaeological survey methodology: Vol. 2, App. I, pp.54-55 Built-environment survey methodology <u>AFC Supplement, Section 5.4, Attachment Cul-9.</u>	Yes <u>No</u> <u>Yes</u>	Applicant needs to provide a detailed description of the built-environment survey procedures and methodology in the Built-Environment Technical Report.
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 <u>Vol. 2, App. I (confidential version), Attachment 5</u>	<u>No</u> <u>Yes</u>	Applicant needs to provide, under confidential cover, DPR 523 series forms that reflect the results of the project-sponsored archaeological survey, including DPR form 523A for all archaeological sites that could be impacted by the project.
		Architecture forms <u>AFC Supplement, Section 5.4 Attachment Cul-9.</u>	<u>No</u> <u>Yes</u>	Applicant needs to provide, NOT under confidential cover, DPR 523 series forms that reflect the results of the project-sponsored built-environment survey, including DPR Primary and Building, Structure, and Object forms, for all built-environment resources that could be impacted by the project.
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	1:24,000 scale, USGS 7.5' topographic quadrangle map(s), with all previously recorded and newly found cultural resources plotted. <u>Vol. 2, App. I (confidential version), Attachment 7</u>	<u>No</u> <u>Yes</u>	Applicant needs to provide a copy of USGS 7.5' quadrangle map(s) of the literature search area, under confidential cover, legibly depicting the locations of all known archaeological and built-environment resources identified in the literature search and all cultural resources identified in the project-sponsored archaeological and built-environment surveys.
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.	Qualifications for archaeological personnel contributing to the Archaeology Technical Report <u>Vol. 2, App. I (confidential version), Attachment 6</u>	<u>No</u> <u>Yes</u>	Applicant needs to add to the Archaeology Technical Report the name(s) and qualifications of person(s) conducting the literature search and the archaeological survey, and preparing the Archaeology Technical Report.

Adequacy Issue: Adequate Inadequate
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Appendix B (g) (2) (C) (v) cont.		Qualifications for built-environment personnel contributing to Built-Environment Technical Report AFC Supplement, Section 5.4, Attachment Cul-1	No Yes	Applicant needs to add to the Built-Environment Technical Report the name(s) and qualifications of person(s) conducting the project-sponsored built-environment survey and preparing the Built-Environment Technical Report.
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	NAHC request: Vol. 2, App. I, Attachment 2 NAHC response(s): Vol. 2, App. I, Attachment 2	Yes Yes	
	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	Letters sent to Native Americans: Vol. 2, App. I, Attachment 2	Yes	
	American individuals and groups listed by the NAHC and copies of all responses. Provide a written summary of any oral responses.	Response(s) from Native Americans: Vol. 2, App. I, Attachment 2 Summary of oral responses from Native Americans: Vol. 2, App. I, Attachment 2	Yes Yes	
Appendix B (g) (2) (E)	Include in the discussion of proposed mitigation measures required by subdivision (g)(1):	-	-	-
Appendix B (g) (2) (E) (i)	A discussion of measures proposed to mitigate project impacts to known cultural resources;	Mitigation measures for known impacts: Vol. 1, pp. 5.4-36-5.4-37	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. 5.4-37-5.4-38	Yes	

Adequacy Issue: Adequate Inadequate
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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. 5.4-37	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 5.4-1 Discussion of applicability of LORS: Vol. 1, Section 5.4.1 Explicitly referenced pages: Vol. 1, Table 5.4-1	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.	Tables identifying jurisdictional agencies: Vol. 1, Table 5.4-2	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.	Agency contacts: Vol. 1, Table 5.4-2	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.	schedule for extra-CEC agency permits: Vol. 1, p. 5.4-6	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
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 Technical Senior: Robert Worl and Mark Hesters

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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 5 and 6	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.	Sections 1.1 and 1.2, Figures 1-1 and 1-2 Section 2.1, 2.2, and 2.4	Yes	
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 2.3, Table 2-1 and Appendix A	Yes	

Adequacy Issue: Adequate Inadequate
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Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Sections 1.1 and 1.2, Figures 1-1 and 1-2, Sections 2.1, 2.2 and 2.3 Sections 5.7.2.1 and 5.7.2.2, pages 5.7-17 through 5.7-21	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.	Figures 5.15-4 through 5.15-9	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 A	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.	Sections 1.2, 2.4.7 and 2.4.8	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.	Sections 1.1 and 1.2	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Section 2.5	Yes	

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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).	Sections 1.1, 1.2 and 2.5	Yes	
Appendix B (b) (1)	In a section entitled, "Generation Facility Description, Design, and Operation" provide the following information:	(See Below)		
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;	Figure 2-1; Table 2-1, page 2-4; Figures 5.15-1 through 5.15-3; Appendix A	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 2-4 through 2-6	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	Sections 2.4 and 2.5	Yes	

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Appendix B (b) (1) (D)	A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant.	Sections 4.0 and 4.2	Yes	
Appendix B (b) (2)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information:	(See Below)		
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);	Figure 2-1; Figures 5.15-1 though 5.15-3; Appendix A	Yes	
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	Figures 2.12 and 2.13	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: John Kessler

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Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights-of-way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators.	Sections 2.4.7 and 2.5; Figures 2-10, 2-12 and 2-13 <u>AFC Supplement, Section 2.0, Figure 2-10</u> <u>Figure 2-10A</u> <u>Figures:</u> <u>TAT-22-18714</u> <u>TAT-22-18715</u> <u>TAT-22-18716</u> <u>Figure: pole</u> <u>Project description modification received on September 16, 2008</u>	No <u>Yes</u>	<ol style="list-style-type: none"> 1. Please resubmit Figure 2-10. Show all equipment ratings including generators, transformers, circuit breakers, disconnect switches, and etc. which required for the project. 2. Please provide detail drawings for the take-off structures which are required in interconnecting the 230 kV transmission lines from the proposed power plant to the existing Vincent Substation. 3. Provide a one-line diagram for the existing SCE Vincent Substation before the interconnection of the project. 4. Provide a one-line diagram for the existing SCE Vincent Substation after the addition of the project. Show all equipment ratings including bay arrangement of the breakers, disconnect switches, buses, and etc. which are required for the addition of the project. 5. Please provide transmission pole/tower configurations which would be used to support the generation tie-line from the proposed project to the Vincent Substation. 6. Please clarify the conductor type, current carrying capacity of the conductor, and number of circuits that will be used in Segment 1 (from project site to near the Pearblossom Substation segment) of the generation tie-line.

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: John Kessler

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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 1.1 Sections 2.5, 4.0 and 4.2	Yes	
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	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: John Kessler

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 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 5.11.2 Affected Environment, page 5.11-3. Section 5.11.2.1 Regional Setting, page 5.11-3. Section 5.11.2.2 Local Setting, page 5.11-3. Section 5.11.3 Environmental Impacts, pages 5.11-17 to 32. Section 5.11.3.4 Environmental Justice, pages 5.11-32-34. Section 5.11.4 Mitigation Measures, page 5.11-34. Section 5.11.3.5 Cumulative Impacts, page 5.11-34. Section 5.11 Projects Considered in Cumulative Analysis, pages 5.1-2 to 3.	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:			
Appendix B (g) (7) (A) (i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	Section 5.11.2.5 Economy and Employment, pages 5.11-6 to 9. Section 5.11.2.8 Fiscal Resources, pages 5.11-16&17.	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: **Socioeconomics**
 Project Manager: John Kessler

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Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	Section 5.11.3.2 Construction, Project Workforce and Population, page 5.11-18 and Population, pages 5.11-28. Table 5.11-13 Available Labor: Long Beach Metropolitan Statistical Area (Los Angeles County), pages 21&22. Table 5.11-14 Available Labor: Kern County Statistical Area, pages 23&24. Table 5.11-15 Available Labor: Ontario Metropolitan Statistical Area (San Bernardino/Riverside Counties), pages 25&26. Table 5.11-16 Available Construction Labor By Skill, page 5.11-27. Section 5.11.2.3 Population, pages 5.11-3 to 5.	Yes	
Appendix B (g) (7) (A) (iii)	Existing unemployment rates;	Section 5.11.2.5 Economy and Employment, page 5.11-8.	Yes	
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	Section 5.11.3.2 Construction, pages 5.11-21 to 27.	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing and current vacancy rate; and	Section 5.11.2.4 Housing, page 5.11-5.	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: John Kessler

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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 5.11.2.6 Public Services and Utilities, pages 5.11-9 to 15.	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:			
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;	Table 5.11-12 PHPP Construction Workforce by Skill, pages 5.11-19&20. Section 5.11.3.3 Operation, Project Work Force and Population, page 5.11-30.	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 5.11.3.2 Construction, Project Work Force and Population, pages, 11-27&28. Section 5.11.3.3 Operation, Project Work Force and Population, Employment, page 5.11-30.	Yes	
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Same as above and Section 5.11.3.2 Construction, Population, page 5.11-28.	Yes	

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Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	Section 5.11.3.2 Construction, Housing, page 5.11-28. Section 5.11.3.3 Operation, Housing, page 5.11-30.	Yes	
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water, and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. 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 5.11.3.2 Construction, Public Services, page 5.11-29. Section 5.11.3.3 Operation, Public Services, page 5.11-31.	Yes	
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	Section 5.11.3.3 Operation, Schools, page 5.11-31.	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 5.11.3.2 Construction, Employment and Economy, page 5.11-28. <u>Response to CEC Staff Data Adequacy Comments, Technical Area:Socioeconomics, Section SOCIO-1, Appendix B (g)(7)(B)(vii), Page 5.11-41</u>	No <u>Yes</u>	Please provide separate estimates of the total operation payroll for permanent and short-term (contract) operations employees.

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Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project;	Section 5.11.3.2 Construction, Fiscal Resources, page 5.11-30. Section 5.11.3.3 Operation, Fiscal Resources, page 5.11-32.	Yes	
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost (plant and equipment) of the project;	Section 5.11.3.3 Operation, Fiscal Resources, page 5.11-31.	Yes	
Appendix B (g) (7) (B) (x)	An estimate of sales taxes generated during construction and separately during an operational year of the project;	Section 5.11.3.3 Operation, Fiscal Resources, pages 5.11-32.	Yes	
Appendix B (g) (7) (B) (xi)	An estimate of property taxes generated during an operational year of the project; and	Section 5.11.3.3 Operation, Fiscal Resources, pages 5.11-31&32.	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 5.11.3.2 Construction, Employment and Economy, pages 5.11-28&29. Section 5.11.3.3 Operation, Employment, pages 5.11-30&31.	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 5.11-1 LORS applicable to socioeconomics, page 5.11-1.	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Socioeconomics
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Joseph Diamond Ph. D.
 Technical Senior: Paula David

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 5.11.1.1 Federal LORS, page 5.11-2. Section 5.11.1.2 State LORS, page 5.11-2. Section 5.11.1.3 Local LORS, page 5.11-2.	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.	Section 5.11.1.4 Involved Agencies and Local Contacts, page 5.11-2. <u>AFC Supplement, Section 5.11</u>	No <u>Yes</u>	Please provide the name, title, phone number, address (required), and email address (if known), of an official within each agency, and also provide the name of the official who will serve as a contact person for commission staff.
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 5.11.1.5 Required Permits and Permitting Schedule, page 5.11-3.	N/A	

Adequacy Issue: Adequate Inadequate
 Technical Area: Soils
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Christopher Dennis
 Technical Senior: Paul Marshall

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 5.12.3 Section 5.12.4	Yes	
Appendix B (g) (15) (A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:	Figure 5.12-1 Volume I, Appendix B	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil;	Section 5.12.2.2 Section 5.12.2.3 Figure 5.12-1	Yes	
Appendix B (g) (15) (A) (ii)	An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system;	Section 5.12.2.2 Section 5.12.2.3 Figure 5.12-1	Yes	
Appendix B (g) (15) (A) (iii)	The location of any proposed fill disposal or fill procurement (borrow) sites; and	Section 5.12.3.1 Volume II, Appendix L	Yes	
Appendix B (g) (15) (A) (iv)	The location of any contaminated soils that could be disturbed by project construction.	Volume I, Appendix E.3 Volume II, Appendix K	Yes	
Appendix B (g) (15) (B)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:	Section 5.12.3	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Soils
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Christopher Dennis
 Technical Senior: Paul Marshall

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (15) (B) (i)	The quantification of accelerated soil loss due to wind and water erosion; and	<u>AFC Supplement, Section 5.12</u>	No <u>Yes</u>	The volume of soil loss due to accelerated wind and water erosion must be numerically quantified using the Revised Universal Soil Loss Equation (RUSLE2 model) and the Wind Erosion Prediction System (WEPS model) or similarly accepted methods. The soil loss should be estimated, in tons, when using Best Management Practices (BMPs) and without BMPs. Each project feature, such as the power block, solar field, and linear facilities, should be evaluated separately.
Appendix B (g) (15) (B) (ii)	The effect of power plant emissions on surrounding soil-vegetation systems.	Section 5.3.3.2	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 5.12.1 Table 5.12-1	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 5.12.1.4 Table 5.12-2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Soils
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Christopher Dennis
 Technical Senior: Paul Marshall

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 5.12.1.4 Table 5.12-2	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.	Table 5.12-3	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: James Adams
 Technical Senior: Paula David

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.	Pg. 5.13-1 through 24 Tables 5.13-1 through 13 Figures 5.121 through 5 Section 5.13	Yes	
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	Figure 5.13-1 Pg. 5.13-1 & 2 Table 5.13-1 Section 5.13.1 <u>AFC Supplement, Section 5.13</u>	No <u>Yes</u>	Please provide a regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities.
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.	Pg. 5.13-10 Section 5.13.2.6 PP. 5.13-15 through 22 Section 5.13.3.4	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: James Adams
 Technical Senior: Paula David

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:		No <u>Yes</u>	Please provide 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.
Appendix B (g) (5) (C) (i)	Road classification and design capacity;	Pg. 5.13-5 & 6 Section 5.13.2	Yes	
Appendix B (g) (5) (C) (ii)	Current daily average and peak traffic counts;	Pg. 5.13-8 & 9 Tables 5.13-5 & 6 Section 5.13.2.3 <u>AFC Supplement, Section 5.13-32, Trans-3</u>	No <u>Yes</u>	Please provide peak traffic counts.
Appendix B (g) (5) (C) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Pg. 5.13-8 Table 5.13-5 Section 5.13.2.3	Yes	
Appendix B (g) (5) (C) (iv)	Weight and load limitations;	<u>AFC Supplement, Section 5.13-32, Trans-4</u>	No <u>Yes</u>	Please provide weight and load limitations.
Appendix B (g) (5) (C) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Pg. 5.13-1 Table 5.13-6 Section 5.13.2.3 <u>AFC Supplement, Section 5.13-32, Trans-5</u>	No <u>Yes</u>	Please provide an estimated percentage of current traffic flows for passenger vehicles and trucks for local streets identified in Table 5.13-6.
Appendix B (g) (5) (C) (vi)	An identification of any road features affecting public safety.	Pg. 5.13-6 Section 5.13.2.2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: James Adams
 Technical Senior: Paula David

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).	Pg. 5.13-12 through 22 Tables 5.13-7 through 13 Sections 5.13.3.2 & 3	Yes	
Appendix B (g) (5) (E)	A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.	Pg. 5.13-14 Section 5.13.3.3 <u>AFC Supplement, Section 5.13-32, Trans-6</u>	No <u>Yes</u>	Please provide a discussion of project-related hazardous materials to be transported to or from the project during construction 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.
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	Pg. 5.13-1 & 2 Table 5.13-1 Section 5.13.1	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: James Adams
 Technical Senior: Paula David

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.	Pg. 5.13-4 Table 5.13-2 Section 5.13.1.4	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.	Pg. 5.13-4 Table 5.13-2 Section 5.13.1.4 <u>AFC Supplement, Section 5.13-32, Trans-7</u>	No <u>Yes</u>	Please provide the name, title, phone number, 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.
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Pg. 5.13-5 Table 5.13-3 Section 5.13.1.5	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project (PHPP)
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Laiping Ng
 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 2.1, page 2-1 to2-2 Section 2.5, page 2-32	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 1.1 Page 1-2 Section 2.1 Page 2-1 to 2-2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project (PHPP)
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Laiping Ng
 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.	Section 2.5.1, page 2-33 to 2-34 Figure 2-10 <u>AFC Supplement, Section 2.0,</u> <u>Figure 2-10</u> <u>Figure 2-10A</u> <u>Figures:</u> <u>TAT-22-18714</u> <u>TAT-22-18715</u> <u>TAT-22-18716</u> <u>Figure: pole</u> <u>Project description modification received on September 16, 2008</u>	No <u>Yes</u>	<ol style="list-style-type: none"> 1. Please resubmit Figure 2-10. Show all equipment ratings including generators, transformers, circuit breakers, disconnect switches, and etc. which required for the project. 2. Please provide detail drawings for the take off structures which are required in interconnecting the 230 kV transmission lines from the proposed power plant to the existing Vincent Substation. 3. Provide a one-line diagram for the existing SCE Vincent Substation before the interconnection of the project. 4. Provide a one-line diagram for the existing SCE Vincent Substation after the addition of the project. Show all equipment ratings including bay arrangement of the breakers, disconnect switches, buses, and etc. which are required for the addition of the project. 5. Please provide transmission pole/tower configurations which would be used to support the generation tie-line from the proposed project to the Vincent Substation. 6. Please clarify the conductor type, current carrying capacity of the conductor, and number of circuits that will be used in Segment 1 (from project site to near the Pearblossom Substation segment) of the generation tie-line.

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project (PHPP)
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Laiping Ng
 Technical Senior: Mark Hesters

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.	Section 1.1, page 1-2	Yes	
Appendix B (b) (2) (E)	<p>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.</p> <p>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.</p>	<p>Section 2.5, page 2-31 to 2-34</p> <p>Appendix F</p>	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 5.14 Page 5.14-1 to 5.14-4	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale Hybrid Power Project (PHPP)
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
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 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.	Table 5.14-6, page 5.14-4	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.	NA		
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.	<u>AFC Supplement, Section 5.14-17</u>	<u>No</u> <u>Yes</u>	Provide a CAISO Preliminary Approval Letter for interconnection of the proposed project to the CAISO control grid or the schedule for when the Preliminary Approval would be granted.

Adequacy Issue: Adequate Inadequate
 Technical Area: Visual Resources
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation	Page 5.15-4,5 Sec. 5.15.2.1 Page 2-3 Sec. 2.3.1 Page 15.15-11-14 Sec. 5.15.3.3, 5.15.3.4 Page 5.15-15 Sec. 5.15.3.4 Page 5.15-15-16 5.15.3.4	Yes	
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the proposed project site and the proposed routes for any project-related linear facilities. Include:	Page 5.15-4,5 Sec. 5.15.2.1	Yes	
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 that depict directions from which the project would be seen, the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(C); and	Figure 5.15-1	Yes	Existing
Appendix B (g) (6) (A) (ii)	Description of the existing visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities, including existing water vapor plumes, above-ground electrical transmission lines, and nighttime lighting levels in the project viewshed.	Page 2-30 Paste 2.4.6.7 Page 5.15-13,14 Sec. 5.15.2.1 <u>AFC Supplement, Vis-3, Section 5.15-43, 44</u>	No <u>Yes</u>	Please provide a description of any modifications to the landscape as a result of human activities. Please provide a description of the existing visual properties of above ground electrical transmission. Please provide a description of the existing visual properties of the nighttime lighting levels in the project viewshed.

Adequacy Issue: Adequate Inadequate
 Technical Area: Visual Resources
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that would be affected by the proposed project. [For projects proposed to be located within the coastal zone, the assessment should also describe how the proposed project would be sited to protect views to and along the ocean and scenic coastal areas, would minimize the alteration of natural land forms, would be visually compatible with the character of surrounding areas] [NA]	Page 5.15-12, 13	Yes	
Appendix B (g) (6) (C)	In consultation with Energy Commission staff, identify: i) any designated scenic roadways or scenic corridors and any visually sensitive areas that would be affected by the proposed project, including recreational and residential areas; and ii) the locations of the key observation points to represent the most critical viewing locations from which to conduct detailed analyses of the visual impacts of the proposed project. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. Also identify any major public roadways and trails of local importance that would be visually impacted by the project and indicate the types of travelers (e.g., local residents, recreationists, workers, commuters, etc.) and the approximate number of vehicles, bicyclists, and/or hikers per day.	Page 5.15-15 Sec. 5.15.3.4 Page 5.15-7,8 <u>AFC Supplement, Vis-4, Section 5.15-44</u>	No <u>Yes</u>	Please identify: i) any designated scenic roadways or scenic corridors and any visually sensitive areas that would be affected by the proposed project, including recreational and residential areas; and ii) the locations of the key observation points indicating the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. Also identify any major public roadways and trails of local importance that would be visually impacted by the project and indicate the types of travelers (e.g., local residents, recreationists, workers, commuters, etc.) and the approximate number of vehicles, bicyclists, and/or hikers per day.

Adequacy Issue: Adequate Inadequate
 Technical Area: Visual Resources
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (D)	A table providing the dimensions (height, length, and width, or diameter) and, proposed color(s), materials, finishes, patterns, and other proposed design characteristics of each major component visible from off the project site, including any project-related electrical transmission line and/or offsite aboveground pipelines and metering stations.	Page 5.15-9 Sec. 5.15.3.2 Table 5.15-3 <u>AFC Supplement, Section 5.15. Table 5.15-5.</u>	No <u>Yes</u>	Please provide a table providing the proposed color(s), materials, finishes, patterns, and other proposed design characteristics of each major component visible from off the project site, including any project-related electrical transmission line and/or offsite above ground pipelines and metering stations.
Appendix B (g) (6) (E)	Provide the cooling tower and heat recovery steam generator (HRSG) exhaust design parameters that affect visible plume formation. For the cooling tower, data shall include heat rejection rate, exhaust temperature, exhaust mass flow rate, liquid to gas mass flow ratio, and, if the tower is plume-abated, moisture content (percent by weight) or plume-abated fogging curve(s). The parameters shall account for a range of ambient conditions (temperature and relative humidity) and proposed operating scenarios, such as duct firing and shutting down individual cells. For the heat recovery steam generator exhausts, data shall include moisture content (percent by weight), exhaust mass flow rate, and exhaust temperature. The parameters must correspond to full-load operating conditions at specified ambient conditions, and shall account for proposed operating scenarios, such as power augmentation (i.e., evaporative coolers, inlet foggers, or steam injection) and duct firing, or proposed HRSG visible plume abatement, such as the use of an economizer bypass. For simple-cycle projects, provide analogous data for the exhaust stack(s).	Page 5.13-19,20 Sec 5.13.3.4 Page 5.15-13-16 Sec 5.15.3.4 Page 5.13-17,18 Sec 5.13.3.4 Page 5.15-13-16 Sec 5.15.3.4	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Visual Resources
 Project Manager: John Kessler

DATA ADEQUACY WORKSHEET

Project: Palmdale
 Docket: 08-AFC-9

Revision No. 1 Date October 2, 2008
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

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Appendix B (g) (6) (F)	Provide: i) full-page color photographic reproductions of the existing site, and ii) full-page color simulations of the proposed project at life-size scale when the picture is held 10 inches from the viewer's eyes, including any project-related electrical transmission lines, in the existing setting from each key observation point. If any landscaping is proposed to comply with zoning requirements or to mitigate visual impacts, include the landscaping in simulation(s) representing sensitive area views, depicting the landscaping five years after installation; and estimate the expected time until maturity is reached.	Figure 2-2 Figure 5.15-4a,b Figure 5.15-5a,b Figure 5.15-6a,b Figure 5.15-7a,b Figure 5.15-8a,b Figure 5.15-9a,b	Yes	
Appendix B (g) (6) (G)	An assessment of the visual impacts of the project, including light, glare, and any modeling of visible plumes. Include a description of the method and identify any computer model used to assess the impacts. Provide an estimate of the expected frequency and dimensions (height, length, and width) of the visible cooling tower and/or exhaust stack plumes. Provide the supporting assumptions, meteorological data, operating parameters, and calculations used.	Sec. 5.15.3.4 Page 5.15-11-16	Yes	
Appendix B (g) (6) (H)	If any landscaping is proposed to reduce the visual impacts of the project, provide a conceptual landscaping plan at a 1:40 scale (1"=40"). Include information on the type of plant species proposed, their size, quantity, and spacing at planting, expected heights at 5 years and maturity, and expected growth rates.	TBD		

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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	Sec. 5.15.1.3 5.15-2, 3	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.	Sec. 5.15.1.3 5.15-2,3	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.	Sec. 5.15.1.3 5.15-3 <u>AFC Supplement, Section 5.15-43</u>	No <u>Yes</u>	Please provide contact information for County of Los Angeles Agency responsible for Scenic Corridors.
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.	<u>AFC Supplement, Section 5.15-43</u>	No <u>Yes</u>	

Adequacy Issue: Adequate Inadequate
 Technical Area: Water Resources
 Project Manager: John Kessler

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 Technical Senior: Paul Marshall

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Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 5.17.3 Section 5.17.4	Yes	
Appendix B (g) (14) (A)	All the information required to apply for the following permits, if applicable, including:	See items below		
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);	Section 5.3.1 Table 5.3-1	Yes	
Appendix B (g) (14) (A) (ii)	Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;	Table 5.16-1	Yes	
Appendix B (g) (14) (A) (iii)	Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	Section 5.3.1 Table 5.3-1	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.	NA		

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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:	Section 5.17.2.2 Figure 5.17-1	Yes	
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Section 5.17.2.2	Yes	
Appendix B (g) (14) (B) (ii)	Surface water bodies;	Section 5.17.2.3	Yes	
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;	Section 5.17.2.3	Yes	
Appendix B (g) (14) (B) (iv)	Flood control facilities (existing and proposed); and	Volume II, Appendix L	Yes	
Appendix B (g) (14) (B) (v)	Groundwater wells within ½ mile if the project will include pumping.	NA		
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	Section 5.17.2.4	Yes	
Appendix B (g) (14) (C) (i)	Source(s) of the primary and back-up water supplies and the rationale for their selection;	Section 5.17.2.4	Yes	

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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);	<u>AFC Supplement, Section 5.17, Table 5.17-4</u>	No <u>Yes</u>	Please provide the expected physical and chemical characteristics of the proposed recycled water that would be used during plant construction and operation. Also, please provide copies of background material used to create this description.
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;	Section 5.17.3.1 Section 5.17.3.2	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;	Section 5.17.2.4 Figure 5.17-1 Figure 2.11a Figure 2.11b Figure 2.11c	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;	Section 5.17.3.1 Appendix E.1 and E.2	Yes	

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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);	Section 5.17.3 Section 5.17.2.4 Appendix E.1 and E.2	Yes	
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	Figure 2.7a Figure 2.7b Figure 2.7c Figure 2.11a Figure 2.11b Figure 2.11c	Yes	

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Appendix B (g) (14) (C) (viii)	<p>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.</p> <p>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.</p>	NA		
Appendix B (g) (14) (D)	Identify all project elements associated with stormwater drainage, including a description of the following:	Section 5.17.3.1 Section 5.17.3.2	Yes	
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;	Section 5.17.2.1 Section 5.17.2.3 Figure 5.17-1	Yes	

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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;	Section 5.17.2.1 Section 5.17.2.3 Volume II, Appendix L	Yes	
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	Volume II, Appendix L	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.	Table 5.16-1 Section 5.17.1 Section 5.17.3.1 Section 5.17.3.2	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:	Section 5.17.2.4 Section 5.17.3	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;	Section 5.17.2.4 Section 5.17.3	Yes	

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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;	NA		
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;	Section 5.17.3.1	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;”	NA		
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;”	NA	Yes	

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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	Volume I, Appendix B	Yes	
Appendix B (g) (14) (vii)	All assumptions, evidence, references, and calculations used in the analysis to assess these effects.	Volume I, Appendix C.1	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 5.13-1 Table 5.16-1 Table 5.17-1 Section 5.17.1	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 5.13-1 Table 5.16-1 Table 5.17-2 Table 5.17-3	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 5.17-2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: **Water Resources**
 Project Manager: John Kessler

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Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 5.17-3	Yes	