

Memorandum

Date: April 14, 2011
Telephone: (916) 654-4996

To: Robert B. Weisenmiller, Ph.D., Chairman
 James D. Boyd, Vice Chair
 Karen Douglas, J.D., Commissioner
 Carla Peterman, Commissioner

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

Subject: **PIO PICO ENERGY CENTER, REVISED DATA ADEQUACY RECOMMENDATION (11-AFC-1)**

DOCKET	
11-AFC-1	
DATE	Apr 14 2011
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On February 10, 2011, Pio Pico Energy Center LLC submitted an Application for Certification (AFC) to the California Energy Commission seeking permission to construct and operate a nominal 300-megawatt (MW) natural gas-fired simple-cycle generating facility, the Pio Pico Energy Center (PPEC). The current AFC replaces the previously proposed project that was withdrawn on December 10, 2010. The new project site is approximately 10 acres of disturbed land located on Alta Road in an unincorporated area of southwestern San Diego County, known as Otay Mesa.

The PPEC would include three General Electric (GE) LMS100 natural gas-fired combustion turbine generators together with air emissions control equipment. The facility would connect to the existing Otay Mesa power plant switchyard via a new overhead 230kV transmission line. The project would also include an aboveground aqueous ammonia storage tank, three water storage tanks and separate underground pipelines to transport natural gas, potable water, reclaimed water, storm water and waste water.

At the March 23, 2011 Business Meeting, the Commission found the AFC to be data inadequate. On April 1, 2011, the applicant filed a Supplement to the AFC. Staff has completed its data adequacy review of the supplemental information together with the original AFC and has determined that it now meets all the requirements listed in Title 20, California Code of Regulations, section 1704, Appendix B (2007) for the 12-month process.

Attached is a summary table and data adequacy worksheets for each technical discipline that was previously found to be inadequate. The worksheets for each technical area identify the location of the supplemental information that was provided to fulfill the AFC data adequacy requirements. At the Energy Commission's business meeting on April 20, 2011, I will recommend that the Energy Commission accept the AFC together with the Supplemental AFC and appoint a Committee for the PPEC. If you have any questions, please call Eric Solorio, staff's Project Manager, at (916) 651-0966.

Attachments (2): Overview of Staff's Data Adequacy Determination and Staff's Data Adequacy Worksheets

Attachment A
Overview of Energy Commission Staff's
Data Adequacy Determination
Pio Pico Energy Center
11-AFC-1

Technical Area	Attachment B Page No.	Adequate?
AIR QUALITY	1	YES
BIOLOGICAL RESOURCES.....	7	YES
CULTURAL RESOURCES.....	14	YES
LAND USE.....	22	YES
PALEONTOLOGY	26	YES
PROJECT OVERVIEW	29	YES
SOILS	34	YES
TRANSMISSION SYSTEM DESIGN	36	YES
WATER.....	39	YES

ATTACHMENT B

**ENERGY COMMISSION STAFF'S
Data Adequacy Worksheets**

**Pio Pico Energy Center
11-AFC-1**

April 14, 2011

Adequacy Issue: Adequate Inadequate DATA ADEQUACY WORKSHEET

Revision No. 01 Date April 11, 2011
~~March 11, 2011~~

Technical Area: Air Quality
Project Manager: Eric K. Solorio

Project: Pio Pico Energy Center
Docket: 11-AFC-1

Technical Staff: Wenjun Qian, Tao Jiang
Technical Senior: Gerry Bemis

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 5.2	Yes	
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	Section 5.2 Appendix G <u>Supplemental AFC, Attachment A</u>	<u>Yes No</u>	Please provide a copy of the letter of completeness from San Diego Air Pollution Control District
Appendix B (g) (8) (B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	Section 5.2.4.2, Table 5.2-16 Appendix G-4, Tables G-4.1, G-4.2 and G-4.3 Appendix G-7, Table G-7.1 Section 3.5.4.2, Table 3.5-2.	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 5.2.4.4 Section 5.2.6.3, Table 5.2-34.	Yes	
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Section 3.5.7.1 Section 5.2.4.2 Appendix G-3, Table G-3.2.	Yes	

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Appendix B (g) (8) (E)	The emission rates of criteria pollutants and greenhouse gases (CO ₂ , CH ₄ , N ₂ O, and SF ₆) from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.	Section 5.2.4.3, Table 5.2-17 Section 5.2.4.4, Tables 5.2-17 to 5.2-21 Section 5.2.4.6, Table 5.2.23 and 5.2-24.	Yes	
Appendix B (g) (8) (F)(i)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Section 5.2.4.4, Tables 5.2-19 to 5.2-21.	Yes	
Appendix B (g) (8) (F)(ii)	A description of the project's planned initial commissioning phase, which is the phase between the first firing of emissions sources and the commercial operations date, including the types and durations of equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests.	Section 5.2.4.3, Table 5.2-17.	Yes	
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Section 5.2.1.4 Section 5.2.4.12	Yes	

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Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.	Section 5.2.4.11	Yes	
Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995)), which is incorporated by reference in its entirety.	N/A	Yes	
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Sections 5.2.1.2 and 5.2.4.11 Appendix G.1 CD containing modeling files.	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:	See Below	Yes	

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Appendix B (g) (8) (I) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM ₁₀) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO _x), sulfur dioxide (SO ₂), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM ₁₀) and particulate matter less than 2.5 microns in diameter (PM _{2.5})] from construction-related equipment;	Section 5.2.4.13, Table 5.2-25 Appendix G-2	Yes	
Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant (NO _x , SO ₂ , CO, PM ₁₀ , and PM _{2.5}) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions;	Section 5.2.4.15, Tables 5.2-27 to 5.2-29 Appendix G-3 Appendix G-4	Yes	
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard; and	Section 5.2.5.1	Yes	

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Appendix B (g) (8) (I) (iv)	An air dispersion modeling analysis of the impacts of the initial commissioning phase emissions on state and federal ambient air quality standards for NO _x , SO ₂ , CO, PM ₁₀ , and PM _{2.5} .	Section 5.2.4.14, Table 5.2-26.	Yes	
Appendix B (g) (8) (J)	If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information:	See Below	Yes	
Appendix B (g) (8) (J) (i)	The quantity of offsets or emission reductions that are needed to satisfy air permitting requirements of local permitting agencies (such as the air district), state and federal oversight air agencies, and the California Energy Commission. Identify by criteria air pollutant, and if appropriate, greenhouse gas; and	Section 5.2.6.3 Section 5.2.7.	Yes	
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions;	N/A	Yes	
Appendix B (g) (8) (K)	A detailed description of the mitigation, if any, which an applicant may propose, for all projects impacts from criteria pollutants that currently exceed state or federal ambient air quality standards, but are not subject to offset requirements under the district's new source review rule.	Section 5.2.7	Yes	

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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	Section 5.2.3, Table 5.2-12.	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 5.2.2 Section 5.2.3.	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.	Section 5.2.2, Table 5.2-9.	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.2.8	Yes	

Technical Area: Biological Resources Project: Pio Pico Energy Center Technical Staff: Carol Watson
 Project Manager: Eric Solorio Docket: 11-AFC-1 Technical Senior: Rick York

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Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 5.6.2, 5.6.3, 5.6.4, and 5.6.5 Appendix J	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 (10) miles of the project Include a map at a ten scale of 1:100,000 (or other suitable scale) showing sensitive biological resource location(s) in relation to the project site and related facilities and any boundaries of a local Habitat Conservation Plan or similar open space land use plan or designation. Sensitive biological resources include the following:	Section 5.6.2 Figure 5.6-1, 5.6-3 Appendix J2 <u>Supplemental AFC: Attachment A, pages 2-3; Attachment B</u>	<u>Yes No</u>	While the boundary of the Multiple Species Habitat Conservation Plan has been mapped, the boundaries of the San Diego National Wildlife Refuge were not. Please provide a map of the refuge boundaries. Also, a discussion of sensitive biological resources of the Refuge and MSCP must be provided.
Appendix B (g) (13) (A) (i)	species listed under state or federal Endangered Species Acts;	Section 5.6.2 Tables 5.6-4 and 5.6-5	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 5.6.2	Yes	
Appendix B (g) (13) (A) (iii)	species identified as state Fully Protected;	Section 5.6.2 Tables 5.6-4 and 5.6-5, appendix J	Yes	
Appendix B (g) (13) (A) (iv)	species covered by Migratory Bird Treaty Act;	<u>Supplemental AFC: Attachment A, pages 4-5</u>	<u>Yes No</u>	Please provide a list of species covered by the MBTA.
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 5.6.2	Yes	

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April 7, 2011

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 Project Manager: Eric Solorio Docket: 11-AFC-1 Technical Senior: Rick York

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Appendix B (g) (13) (A) (vi)	fish and wildlife species that have commercial and/or recreational value .	Section 5.6.2	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:	Section 5.6.2 Figure 5.6-2 Tables 5.6-2 and 5.6-3	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;	Section 5.6.2 Figures 5.6-1 and 5.6-2	Yes	
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	N/A	
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.	Appendix J2	Yes	

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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 5.6.2	Yes	
Appendix B (g) (13) (C) (i)	A list of all the species actually observed;	Section 5.6.2 Tables 5.6-2 and 5.6-3	Yes	
Appendix B (g) (13) (C) (ii)	A list of sensitive species and habitats with a potential to occur (as defined in (A) above); and	Section 5.6.2 Tables 5.6-2 and 5.6-3	Yes	
Appendix B (g) (13) (C) (iii)	If cooling water is taken directly from or discharged to a surface water feature source, include a description of the intake structure, screens, water volume, intake velocity hydraulic zone field of influence, and the thermal plume dispersion area as depicted in response to B(ii) above. Describe the thermal plume size and dispersion under high and low tides, and in response to local currents and seasonal changes. Provide a discussion of the aquatic habitats, biological resources, and critical life stages found in these affected waters. For repower projects that anticipate no change in cooling water flow, this information shall be provided in the form of the most recent federal Clean Water Act 316(a) and (b) studies of entrainment and impingement impacts that has been completed within the last five (5) years. For new projects or repower projects proposing to use once-through cooling and anticipating an increase in cooling water flow, provide a complete impingement and entrainment analysis per guidance in (D)(ii), below.	N/A	N/A	

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Appendix B (g) (13) (D)	A description and results of all field studies and seasonal surveys used to provide biological baseline information about the project site and associated facilities. Include copies of the California Natural Diversity Database records and field survey forms completed by the applicant's biologist(s). Identify the date(s) the surveys were completed, methods used to complete the surveys, and the name(s) and qualifications of the biologists conducting the surveys. Include:	<u>Supplemental AFC: Attachment A, page 6. Dept. of Fish and Game, US Fish and Wildlife Service, and Energy Commission agree survey results are not necessary for data adequacy (fairy shrimp and vernal pool results will be received after conclusion in mid-April; burrowing owl surveys will be completed during discovery).</u>	<u>Yes No</u>	When available, provide results of surveys for San Diego fairy shrimp, vernal pool, and burrowing owl. Identify the date(s) the surveys were completed, methods used to complete the surveys, and the name(s) and qualifications of the biologists conducting the surveys.
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;	<u>Supplemental AFC: page 6-7: Dept. of Fish and Game, US Fish and Wildlife Service, and Energy Commission agree survey results are not necessary for data adequacy (fairy shrimp and vernal pool results will be received after conclusion in mid-April; burrowing owl surveys will be completed during discovery).</u> <u>Supplemental AFC Attachment C: Quino checkerspot site assessment results.</u>	<u>Yes No</u>	Please undertake protocol surveys for San Diego fairy shrimp, vernal pool, and burrowing owl, and provide details of methodology and results. According to the USFWS Quino Survey Area Map (http://www.fws.gov/carlsbad/TEspecies/Documents/QuinoDocs/web_map20052.pdf), and Quino survey protocol (http://www.fws.gov/carlsbad/TEspecies/Documents/QuinoDocs/2002%20Quino%20protocol%20complete.pdf) the project falls within a recommended site assessment area. Please provide a copy of a recent site assessment.
Appendix B (g) (13) (D) (ii)	If cooling water is proposed to be taken directly from or discharged to a surface water feature seasonal aquatic resource studies and surveys shall be	N/A	N/A	

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	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			
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.	Appendix J2	Yes	
Appendix B (g) (13) (E)	Impacts discussion of the following:		Yes	
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;	Sections 5.6.3 and 5.6.4	Yes	
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	N/A	N/A	

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	rate of cooling water flow at the intake and discharge location; and			
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	N/A	
Appendix B (g) (13) (F)	A discussion of all feasible mitigation measures including, but not limited to the following:	Section 5.6.5	Yes	
Appendix B (g) (13) (F) (i)	All measures proposed to avoid and/or reduce adverse impacts to biological resources;	Section 5.6.5	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;	Supplemental AFC: Attachment A: page 8.	<u>Yes No</u>	Please provide contacts and offsite habitat mitigation and/or improvement. If none is believed necessary, please provide rationale for decision.
Appendix B (g) (13) (F) (iii)	Design features to better disperse or eliminate a thermal discharge;	N/A	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	N/A	
Appendix B (g) (13) (F) (v)	Educational programs to enhance employee awareness during construction and operation to protect biological resources.	Section 5.6.5	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 5.6.5	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 the proposed project be	Supplemental AFC: Attachment A, page 9, and Attachment D.	<u>Yes No</u>	Please copies of any preliminary correspondence between PPEC and state and federal resource agencies regarding applicable federal or state permits from other agencies (e.g. USFWS, U.S. Army Corps of Engineers, the California Department of Fish and Game, or the Regional Water Quality Control Board).

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	required for			
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 5.6.6 Table 5.6-7	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.	Sections 5.6.6 and 5.6.7 Tables 5.6-7 and 5.6-8	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 5.6.7 Table 5.6-8 <u>Supplemental AFC: Attachment A, page 10.</u>	<u>Yes</u> No	Please provide contacts for the following agencies: USFWS, CDFG, USACE, and RWQCB.
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 5.6.8 Table 5.6-9 <u>Supplemental AFC: Attachment A, page 11-12.</u>	<u>Yes</u> No	Table 5.6.9-9 has been included which lists milestones, but no schedule has been developed. Please determine and provide a schedule for permitting outside of the Energy Commission's permitting authority.

Adequacy Issue: Adequate Inadequate

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Revision No. 01 Date ~~March 10, 2011~~
April 11, 2011

Technical Area: Cultural Resources
Project Manager: Eric Solorio

Project: Pio Pico Energy Center
Docket: 11-AFC-1

Technical Staff: Sarah Allred/Mike McGuire
Technical Senior: Shaelyn Strattan

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. Pp. 5.7-3 and 5.7-4, vol. I, AFC. Expected project impacts. Pp. 5.7-50 and 5.7-51, vol. I, AFC. Proposed mitigation measures. Pp. 5.7-52–5.7-64, vol. I, AFC. Effectiveness of proposed mitigation measures. Pp. 5.7-51 and 5.7-52, vol. I, AFC. Monitoring plans proposed to verify mitigation effectiveness.	Yes Yes Yes N/A	
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. Pp. 5.7-5–5.7-13, vol. I, AFC; pp. 4-1–4-9, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC. <u>Supplemental AFC (April 2011), Attachment E, p. 4-1.</u>	Yes No	Please derive a context for the prehistory of the area in a 5-mile radius around the appropriate project area of analysis. The basis for this context should be the information that the applicant provides in vols. II–V, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.
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	Literature search results per the regulations. Pp. 5.7-15–5.7-37, vol. 1, AFC; pp. 5-1–5-34, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.	Yes	

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
	<p>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>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>	<p>Cultural resources listed under a city or county ordinance. Pp. 6-3 and 6-4, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Cultural resources recognized by local heritage society or museum. Pp. 6-3 and 6-4, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Interior Secretary's PQS for archaeology. Exhibit A, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Interior Secretary's PQS for history or architectural history. Exhibit A, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>DPR 523 forms.</p> <p><u>Supplemental AFC (April 2011), Revised Cultural Resources Assessment Report, Volume V.</u></p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p><u>Yes No</u></p>	<p>The presence or locations of the DPR 523 forms in the AFC is unclear. Staff requests that the applicant either provide a list clearly identifying the locations of the DPR 523 forms for all cultural resources 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)), or collect said forms into a separate appendix.</p>

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
		Map of literature search area with areas of past surveys and CHRIS Nos. Exhibit E, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.	Yes	
		CHRIS reports. Exhibit F, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.	Yes	
Appendix B (g) (2) (C)	<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</p>	<p>Interior Secretary's PQS for archaeology. Exhibit A, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Interior Secretary's PQS for history or architectural history. Exhibit A, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Archaeology survey coverage. P. 6-1, and figs. 1-3 and 1-4, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Built-environment survey coverage. P. 6-3, and figs. 1-3 and 1-4, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Technical report of results of new archaeological surveys. app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p><u>Yes No</u></p>	<p>The present technical report does not conform to the ARMR format. The technical report needs to more closely adhere to the direction of subsection VI.B.1.b of ARMR; develop, pursuant to section VII of ARMR, research designs for both the prehistoric and the historic archeological resource bases in the</p>

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
	<p>field reconnaissance (“windshield survey”) in urban and suburban areas shall be conducted along the routes of all linear facilities to identify, inventory, and characterize structures and districts that appear to be older than 45 years or that are exceptionally significant, whatever their age.</p> <p>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).</p>	<p><u>Supplemental AFC (April 2011), Attachment E, Section 4.1, Section 7, Section 8, and Section 9.</u></p> <p>Technical report of results of a built-environment survey. Pp. 6-7-6-12, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p>	<p>Yes</p>	<p>project area; incorporate the direction of section X of ARMR; and, to facilitate the development of appropriate mitigation measures, incorporate the direction of subsection XI.B of ARMR.</p>
<p>Appendix B (g) (2) (C) cont.</p>	<p>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:</p>	<p>AFC must include non-confidential technical report data. Section 5.7, vol. I, AFC.</p>	<p>Yes</p>	
<p>Appendix B (g) (2) (C) (i)</p>	<p>The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);</p>	<p>Summary of the ethnology, prehistory, and history. Section 4, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Literature search and results. Section 5, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p>	<p>Yes</p> <p>Yes</p>	

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Technical Staff: Sarah Allred/Mike McGuire
Technical Senior: Shaelyn Strattan

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C) (ii)	The survey procedures and methodology used to identify cultural resources and a discussion of the cultural resources identified by the survey;	<p>Archaeological survey methodology. P. 6-1, and figs. 1-3 and 1-4, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Built-environment survey methodology. P. 6-3, and figs. 1-3 and 1-4, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Discussion of archaeological resources. Pp. 6-4–6-7, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p> <p>Discussion of built-environment resources. Pp. 6-7–6-12, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	
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;	<p>Archaeology forms. Vol. 3, app. B <u>Supplemental AFC (April 2011), Revised Cultural Resources Assessment Report, Volume V.</u></p> <p>Built-environment forms. <u>Supplemental AFC (April 2011), Revised Cultural Resources Assessment Report, Volume V.</u></p>	<p><u>Yes</u> No</p> <p><u>Yes</u> No</p>	<p>The presence or locations of the DPR 523 forms in the AFC is unclear. Staff requests that the applicant either provide a list clearly identifying the locations of all new and updated DPR 523(A) forms, or collect said forms into a separate appendix.</p> <p>The presence or locations of the DPR 523 forms in the AFC is unclear. Staff requests that the applicant either provide a list clearly identifying the locations of all new and updated DPR 523(A) forms, or collect said forms into a separate appendix.</p>

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C) (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, one map, of all previously recorded and newly found cultural resources. Exhibit E, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.	Yes	
Appendix B (g) (2) (C) (v)	The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report.	Personnel and qualifications to conduct archaeological research. Exhibit A, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.	Yes	
		Personnel and qualifications to conduct built-environment research. Exhibit A, app. K (<i>Cultural Resources Assessment Report</i>), vol. II, AFC.	Yes	
Appendix B (g) (2) (D)	Provide a copy of your request to the Native American Heritage Commission (NAHC) for information on Native American sacred sites and lists of Native Americans interested in the project vicinity, and copies of any correspondence received from the NAHC. Notify the Native Americans on the NAHC list about the project, including a project description and map. Provide a copy of all correspondence sent to Native American individuals and groups listed by the NAHC and copies of all responses. Provide a written summary of any oral responses.	NAHC request. Exhibit B, app. K, vol. 2, AFC.	Yes	
		NAHC response(s). Exhibit B, app. K, vol. 2, AFC.	Yes	
		Letters sent to Native Americans. Exhibit B, app. K, vol. 2, AFC.	Yes	
		Response(s) from Native Americans. Exhibit B, app. K, vol. 2, AFC.	Yes	
		Summary of oral responses from Native Americans. Exhibit B, app. K, vol. 2, AFC.	Yes	

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Project Manager: Eric Solorio

Project: Pio Pico Energy Center
Docket: 11-AFC-1

Technical Staff: Sarah Allred/Mike McGuire
Technical Senior: Shaelyn Strattan

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (E)	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;	Proposed mitigation measures. Section 5.7.4, vol. I, AFC.	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. Section 5.7.4, vol. I, AFC.	Yes	
Appendix B (g) (2) (E) (iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural resources.	Labor education. Section 5.7.4, vol. I, AFC.	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. Section 5.7.5, and table 5.7-7, vol. 1, AFC. Discussion of LORS applicability and conformance. Section 5.7.5, and table 5.7-7, vol. 1, AFC. Conformance page references. Section 5.7.5, and table 5.7-7, vol. 1, AFC.	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.	Jurisdictional agencies. Table 5.7-7, vol. 1, AFC.	Yes	

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (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. Table 5.7-8, vol. 1, AFC.	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.	Extra-agency Permits. P. 5.7-72, vol. 1, AFC.	Yes	

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Technical Area: Land Use Project: Pio Pico Energy Center Technical Staff: Candace M. Hill
Project Manager: Eric Solorio Docket: 11-AFC-01 Technical Senior: Amanda Stennick

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 5.9-4; Section 5.9.1.2 Page 5.9-12; Section 5.9.2 Page 5.9-13-21; Section 5.9.5	Yes	
Appendix B (g) (3) (A)	A discussion of existing land uses and current zoning at the site, land uses and land use patterns within one mile of the proposed site and within one-quarter mile of any project related linear facilities. Include:	Page 5.9-3-7; Section 5.9.1.2 and Table 5.9-1	Yes	
Appendix B (g) (3) (A) (i)	An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;	Page 5.9-3-7; Section 5.9.1.2 and Table 5.9-1 Page 5.9-12; Section 5.9.2	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any recent or proposed zone changes and/or general plan amendments; noticed by an elected or appointed board, commission, or similar entity at the state or local level;	Page 5.9-9-10; Section 5.9.1.6	Yes	
Appendix B (g) (3) (A) (iii)	Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and	Page 5.9-10-12; Section 5.9.1.7 and Table 5.9-2	Yes	

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 Project Manager: Eric Solorio Docket: 11-AFC-01 Technical Senior: Amanda Stennick

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (A) (iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Figures 5.9-1; 5.9-2; 5.9-3; 5.9-4; 5.9-5	Yes	
Appendix B (g) (3) (B)	<p>A discussion of the compatibility of the proposed project with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agencies. The discussion shall identify the need, if any, for land use decisions by another public agency or as part of the commission's decision that would be necessary to make the project conform to adopted federal, state, regional, or local coastal use plans, or zoning ordinances plans, land.</p> <p>Examples of land use decisions include: general plan amendments, zoning changes, lot line adjustments, parcel mergers, subdivision maps, Agricultural Land Conservation Act contracts cancellation, and Airport Land Use Plan consistency determinations.</p>	Page 5.9-7-8; Section 5.9.1.3	Yes	
Appendix B (g) (3) (C)	A discussion of the legal status of the parcel(s) on which the project is proposed. If the proposed site consists of more than one legal parcel, describe the method and timetable for merging or otherwise combining those parcels so that the proposed project, excluding linears and temporary laydown or staging area, will be located on a single legal parcel. The merger need not occur prior to a decision on the Application but must be completed prior to the start of construction.	<p>N/A</p> <p><u>Supplemental AFC, Page 19 and Attachment F – Parcel Map 20473, Recorded April 23, 2008</u></p>	<u>Yes</u> No	Please provide a discussion of the legal status of the parcel(s) on which the project is proposed.

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Project Manager: Eric Solorio Docket: 11-AFC-01 Technical Senior: Amanda Stennick

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (D)	A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:	Page 5.9-4; Section 5.9.1.2; Figure 5.9-5	Yes	
Appendix B (g) (3) (D) (i)	Crop types, irrigation systems, and any special cultivation practices;	Page 5.9-4; Section 5.9.1.2	Yes	
Appendix B (g) (3) (D) (ii)	Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the California Department of Conservation; and	Page 5.9-4; Section 5.9.1.2; Figure 5.9-5	Yes	
Appendix B (g) (3) (D) (iii)	Direct, indirect and cumulative effects on agricultural land uses. If the proposed site or related facilities are subject to an Agricultural Land Conservation contract provide a written, copy and a discussion of the status of the expiration or canceling of such contract.	Page 5.9-4; Section 5.9.1.2	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	Page 5.9-21-22; Table 5.9-3	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.	Page 5.9-23; Section 5.9.5.5, Table 5.9-5	Yes	

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Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Page 5.9-22-23; Section 5.9.5.4, Table 5.9-4	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.	Page 5.9-23; Section 5.9.5.5	Yes	

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Technical Area: Paleontology Project: Pio Pico Energy Center Technical Staff: Casey Weaver
 Project Manager: Eric Solorio Docket: 11-AFC-1 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.	Sections 5.8.1, 5.8.2, 5.8.3 and 5.8.4	Yes	
Appendix B (g) (16) (A)	Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The size of the paleontological study area may vary depending on the depositional history of the region.	Sections 5.8.1	Yes	
Appendix B (g) (16) (B)	A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontologic localities or other paleontologic resources within or adjacent to the project. Include a discussion of sensitivity for each geologic unit identified on the most recent geologic map at a scale of 1:24,000. Provide rationale as to why the sensitivity was assigned.	Section 5.8.1.4 and 5.8.1.5 Confidential Appendix L	Yes	
Appendix B (g) (16) (C)	A summary of all local museums, literature searches and field surveys used to provide information about paleontologic resources in the project area described in subsection (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys.	Section 5.8.1.3	Yes	

Technical Area: Paleontology Project: Pio Pico Energy Center Technical Staff: Casey Weaver
Project Manager: Eric Solorio Docket: 11-AFC-1 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) (16) (D)	Information on the specific location of known paleontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, showing occurrences of fossil, finds if known, within a one-mile radius of the project and related facilities shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to Title 20, California Code of Regulations, s 2501 et seq.	Confidential Appendix L	Yes	
Appendix B (g) (16) (E)	A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known paleontologic resources, and a set of contingency measures for mitigation of potential impacts to currently unknown paleontologic resources.	Section 5.8.4	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 5.8.5 Table 5.8-1 <u>Supplemental AFC, pp. 21-22</u>	<u>Yes</u> No	Should include reference to paleontological guidelines developed by the City of San Diego in 1998.
v (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 5.8.5 and 5.8.6 Tables 5.8-1 and 5.8-2	Yes	

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 Project Manager: Eric Solorio Docket: 11-AFC-1 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 5.8.6 Tables 5.8-2	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.	Section 5.8.7	Yes	

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April 6, 2011

Technical Area: Project Overview
Project Manager: Eric Solorio

Project: Pio Pico Energy Center
Docket: 11-AFC-1

Technical Staff: Eric K. Solorio
Technical Senior: Roger Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Sections 1.0 through 5.18 Appendices A through R	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Sections 1.0 through 5.18 Appendices A through R	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference	Section 3.14, p. 3-55 Section 5.2.9, p. 5.2-69 Section 5.3.6, p. 5.3-12 Section 5.4.6, p. 5.4-15 Section 5.5.8, p. 5.5-32 Section 5.6.9, p. 5.6-35 Section 5.7.8, p. 5.7-72 Section 5.8.8, p. 5.8-18 Section 5.9.6, p. 5.9-23 Section 5.10.7, p. 5.10-26 Section 5.11.8, p. 5.11-35 Section 5.12.10, p. 5.12-41 Section 5.13.8, p. 5.13-32 Section 5.14.8, p. 5.14-19 Section 5.15.8, p. 5.15-25 Section 5.16.8, p. 5.16-20 Section 5.17.8, p. 5.17-22 Section 5.18.8, p. 5.18-11	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	Table of Contents Section 7.0 <u>Supplemental AFC, p23</u>	<u>Yes</u> No	Please provide the name of the person responsible for preparing the following sections: Alternatives, Facility Description, Project Objectives and Cumulative Impacts.

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Technical Senior: Roger Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply routes and facilities, water supply routes and facilities, pollution control systems, and other general characteristics.	Section 1, p. 1.1-1.5 Sections 3.3, 3.5.6, 3.5.7, and 3.5.9, pp. 3-3 through 3-54	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 3.3, pp. 3-3 and 3-4	Yes	
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Sections 3.1 and 3.3, pp.3-1 through 3-3 Figures 3.1-1, 3.1-2, 3.3-2, and 3.3-4	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 5.13-10 through 5.13-17.	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 M	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.	Table 3.9-1, p. 3-45	Yes	

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Technical Senior: Roger Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Section 1.4, p. 1.5-3 Section 6.0, p. 6-1	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Section 3.1, p. 3-3	Yes	
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, Section 3.1, p. 3-1 Section 6.0, p. 6-1	Yes	
Appendix B (b) (1)	In a section entitled, "Generation Facility Description, Design, and Operation" provide the following information:	--		
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), (or appropriate map scale agreed to by staff) along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Figures 3.1-3A, 3.1-3B, 3.3-1, and 5.9-5 <u>Supplemental AFC, p24, Attachment "G", Revised Figure 3.3-1</u>	<u>Yes</u> No	Please provide new figures with accurate map scales.
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);	Figure 3.5-1 <u>Supplemental AFC, p25, Attachment "H", Revised Figure 3.1-3A, 3.1-3B and 3.5-1</u>	<u>Yes</u> No	Please provide new figures with accurate map scales.

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Technical Senior: Roger Johnson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (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 3.5 through 3.12 pp. 3-6 through 3-55	Yes	
Appendix B (b) (1) (D)	A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant.	Section 4.0, p. 4-1 through 4-21	Yes	
Appendix B (b) (2)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information:	--		
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 (or appropriate map scale agreed to by staff) of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s);	Figure 3.3-4	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 5.13-10 through 5.13-17. <u>Supplemental AFC, p25, Attachment "I", Revised Figure 3.7-3A, 3.7-3B, 3.7-4A, and 3.7-4B.</u>	<u>Yes No</u>	Please provide 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.

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 Technical Senior: Roger Johnson

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 3.7, pp. 3-34 through 3-42	Yes	

Adequacy Issue: Adequate Inadequate DATA ADEQUACY WORKSHEET Revision No.: 1 Date: April 5, 2011
February 25, 2011

Technical Area: Soils Project: Pio Pico Energy Center Technical Staff: Marylou Taylor
 Project Manager: Eric Solorio Docket: 11-AFC-1 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 5.4 (pgs. 5.4-1 through 5.4-16)	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:	Fig. 5-4.1 Section 5.4.1.2 (pgs. 5.4-2 through 5.4-4) Section 5.9.1.2	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil;	Section 5.4.1.2 (pgs. 5.4-2 through 5.4-4)	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 5.4.1.2 (pgs. 5.4-2 through 5.4-4) and Section 5.4.2.4 (pg. 5.4-11)	Yes	
Appendix B (g) (15) (A) (iii)	The location of any proposed fill disposal or fill procurement (borrow) sites; and	N/A <u>Supplemental AFC, pg.27</u>	<u>Yes</u> No	The grading plan (Appendix I-3) indicates unbalanced earthwork, with 6152 cubic yards of cut and 11,925 cubic yards of fill. Please identify the location of proposed fill procurement (borrow) sites.
Appendix B (g) (15) (A) (iv)	The location of any contaminated soils that could be disturbed by project construction.	N/A		
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 5.4.1.2 (pg. 5.4-4) and Section 5.4.2 (pgs. 5.4-4 through 5.4-11)	Yes	
Appendix B (g) (15) (B) (i)	The quantification of accelerated soil loss due to wind and water erosion; and	Section 5.4.2.2 (pgs. 5.4-6 through 5.4-11)	Yes	

Adequacy Issue: Adequate Inadequate DATA ADEQUACY WORKSHEET Revision No.: 1 Date: April 5, 2011
February 25, 2011

Technical Area: **Soils** Project: Pio Pico Energy Center Technical Staff: Marylou Taylor
 Project Manager: Eric Solorio Docket: 11-AFC-1 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
		Tables 5.4-2 through 5.4-4		
Appendix B (g) (15) (B) (ii)	The effect of power plant emissions on surrounding soil-vegetation systems.	Sections 5.4.2.4 (pg. 5.4-11) and 5.4.3 (pg. 5.4-12)	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 5.4.5 (pgs. 5.4-13 through 5.4-14) Table 5.4-5 (pg. 5.4-13) ---	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 5.4.5.4 (pg. 5.4-15) Table 5.4-7 (pg. 5.4-15)	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 5.4.5.4 (pg. 5.4-15) Table 5.4-6 (pg. 5.4-15)	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.4.5.5 (pg. 5.4-15) Table 5.4-7 (pg. 5.4-15)	Yes	

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Revision No. 01 Date ~~March 11, 2011~~
April 6, 2011

Technical Area: Transmission System Design
Project Manager: Eric Solorio

Project: Pio Pico Energy Center
Docket: 11-AFC-1

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 2.0 Page 2-1 to 2-3 Section 3.2 Page 3-3	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 1.2 Section 3.3 Page 3-4 Section 3.5.5 Page 3-11 to 3-12	Yes	
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators.	Section 3.5.5 Page 3-11 to 3-13 Section 3.7 Page 3-34 to 3-35 Figure 3.5-3 Figure 3.7-1A to 3.7-1D <u>Supplement AFC</u> <u>Page 28</u> <u>Figure 3.7-2</u>	<u>Yes No</u>	<ol style="list-style-type: none"> 1. Provide a detailed one-line diagram for the existing Otay Mesa switchyard before the interconnection of the project. 2. Provide a detailed one-line diagram for the Otay Mesa switchyard after addition of the project. <ul style="list-style-type: none"> ● Show bay arrangement and the necessary equipment which are required to interconnect the project. ● Provide ratings of the breakers, disconnect switches, relays, buses, and etc. 3. Provide the required auxiliary load of the proposed project in MW.

Adequacy Issue: Adequate Inadequate

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Revision No. 01 Date ~~March 11, 2011~~
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Technical Area: Transmission System Design
Project Manager: Eric Solorio

Project: Pio Pico Energy Center
Docket: 11-AFC-1

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 3.5.5 Page 3-11 to 3-12	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>	Section 3.7.3.2 Page 3-36 Appendix H	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 3.7.5 Page 3-40 to 3-41	Yes	

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Technical Area: Transmission System Design
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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (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 3.7.6 Page 3-41 to 3-42	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 3.7.6 Page 3-41 to 3-42	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 3.7.3.2 Page 3-36 <u>Supplement AFC</u> <u>Page 29</u>	<u>Yes</u> No	Provide a schedule describing when the CAISO Cluster Study (Phase I and Phase II) of the proposed project would be available for Energy Commission staff review.

Technical Area: Water Project: Pio Pico Energy Center Technical Staff: M. Taylor & A-K Abulaban
Project Manager: Eric Solorio Docket: 11-AFC-1 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.	Sections 5.5.1, 5.5.2, 5.5.3 and 5.5.4 <u>Supplemental AFC, pg.30</u>	<u>Yes No</u>	Please include discussion of project impacts if recycled water system is not available as expected and potable water is required instead.
Appendix B (g) (14) (A)	All the information required to apply for the following permits if applicable, including:		Yes	
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);	Sections 5.5.2.9, 5.5.4, 5.5.5, and 5.5.7 Appendix I-3	Yes	
Appendix B (g) (14) (A) (ii)	Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;	Sections 5.5.2.6, 5.5.2.7, 5.5.2.8, 5.5.3.3, and 5.5.7	Yes	
Appendix B (g) (14) (A) (iii)	Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	Sections 5.5.3.2, 5.5.5.1, 5.5.6, and 5.5.7 Tables 5.5-5 and 5.5-7	Yes	
Appendix B (g) (14) (A) (iv)	Underground Injection Control Permit(s) from the U.S. Environmental Protection Agency, California Division of Oil and Gas, and RWQCB.	N/A	N/A	
Appendix B (g) (14) (B)	A detailed description of the hydrologic setting of the project. The information shall include a narrative discussion and on maps at a scale of 1:24,000 (or appropriate scale approved by staff), describing the chemical and physical characteristics of the following nearby water bodies that may be affected by the proposed project:	Sections 5.5.1.4, 5.5.1.5, and 5.5.1.6 Figure 5.5-1 Figure 5.5-2 (1:24,000)	Yes	

Technical Area: Water Project: Pio Pico Energy Center Technical Staff: M. Taylor & A-K Abulaban
Project Manager: Eric Solorio Docket: 11-AFC-1 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) (14) (B) (i)	Ground water bodies and related geologic structures;	Section 5.5.1.6	Yes	
Appendix B (g) (14) (B) (ii)	Surface water bodies;	Section 5.5.1.4	Yes	
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;	Section 5.5.1.5	Yes	
Appendix B (g) (14) (B) (iv)	Flood control facilities (existing and proposed); and	Section 5.5.2.9	Yes	
Appendix B (g) (14) (B) (v)	Groundwater wells within ½ mile if the project will include pumping.	N/A	N/A	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	Section 5.5.2	_____	
Appendix B (g) (14) (C) (i)	Source(s) of the primary and back-up water supplies and the rationale for their selection;	Sections 5.5.2.1 and 5.5.2.2	Yes	
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);	Section 5.5.2.1 Table 5.5-4 Appendix I-2	Yes	
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project;	Section 5.5.2, including Sections 5.5.2.7 and 5.5.2.10 Table 5.5-3 Figures 3.5-4A and 3.5-4B <u>Supplemental AFC, pgs.31-32</u>	<u>Yes</u> No	Please include the average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project.

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Project Manager: Eric Solorio Docket: 11-AFC-1 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) (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 5.5.2 Figures 3.4-4A and 3.4-4B	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 cannot be provided, identify the most likely water purveyor and discuss the necessary assurances from the water purveyor to serve the project;	Sections 5.5.2.2 and 5.5.2.5 Appendix I-1	Yes	
Appendix B (g) (14) (C) (vi)	For all water supplied which necessitates transfers and/or exchanges at any point, identify all parties and contracts/agreements involved, the primary source for the transfer and/or exchange water (e.g., surface water, groundwater), and provide the status of all appropriate agencies' approvals for the proposed use, environmental impact analysis on the specific transfers and/or exchanges required to obtain the proposed supplies, a copy of any agency regulations that govern the use of the water, and an explanation of how the project complies with the agency regulation(s);	N/A	N/A	
Appendix B (g) (14) (C) (vii)	Provide water mass balance and heat balance diagrams for both average and maximum flows that include all process and/or ancillary water supplies and wastewater streams. Highlight any water conservation measures on the diagram and the amount that they reduce water demand; and	Section 5.5.2 Figures 3.4-4A and 3.4-4B, and Figures 3.5-2A through 3.5-2D	Yes	

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Appendix B (g) (14) (C) (viii)	For all projects which have a discharge, provide a copy of the will-serve letter, permit or contract with the public or private entity that will be accepting the wastewater and contact storm water from the project. The letter, permit or contract if possible, shall identify the discharge volumes and the chemical or physical characteristics under which the wastewater and contact storm water will be accepted. In the event that a will-serve letter, permit, or contract cannot be provided, identify the most likely wastewater/storm water entity and discuss why the applicant was unable to secure the necessary assurances to serve the project's wastewater/storm water needs. Also, discuss the term of the wastewater service to the project, whether the wastewater entity has adequate permit capacity for the volume of wastewater from the project and has adequate permit levels for the chemical/physical characteristics of the project's wastewater and storm water for the life of the project, and any issues or conditions/restrictions the wastewater entity may impose on the project.	Sections 5.5.3.2 and 5.5.3.3 Appendix I-1	Yes	
Appendix B (g) (14) (D)	Identify all project elements associated with stormwater drainage, including a description of the following:	Sections 5.5.2.9 and 5.5.3.2 Appendix I-3	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 5.5.1.3 Table 5.5-2 Figure 3.4-3 Appendix I-3	Yes	
Appendix B (g) (14) (D) (ii)	Drainage facilities and the design criteria used for the plant site and ancillary facilities, including but not limited to capacity of designed system, design storm, and estimated runoff;	Sections 5.5.2.9 and 5.5.3.2 Figure 3.4-3 Appendix A and I-3	Yes	

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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	Appendix A and I-3	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.	Section 5.5.5	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:	_____	---	
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;	Sections 5.5.3.1, 5.5.3.2, 5.5.3.6, and 5.5.5.3 <u>Supplemental AFC, pg.33</u>	<u>Yes</u> No	AFC states "In the event that the expanded recycled water system has not been completed and is not operational, PPEC would rely on potable water... until such time that recycled water became available." (5.5.2) Please include the effects of project demand on potable water supply if recycled water system is not available as expected.
Appendix B (g) (14) (E) (ii)	If the project will pump groundwater, an estimation of aquifer drawdown based on a computer modeling study shall be conducted by a professional geologist and include the estimated drawdown on neighboring wells within 0.5 mile of the proposed well(s), any effects on the migration of groundwater contaminants, and the likelihood of any changes in existing physical or chemical conditions of groundwater resources shall be provided;	N/A	N/A	
Appendix B (g) (14) (iii)	The effects of construction activities and plant operation on water quality and to what extent these effects could be mitigated by best management practices;	Sections 5.5.3.2, 5.5.3.3, 5.5.3.5, and 5.5.4	Yes	

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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;"	Sections 5.5.2.7 and 5.5.3.3	Yes	
Appendix B (g) (14) (v)	If using fresh water, include a discussion of the cumulative impacts, alternative water supply sources and alternative cooling technologies considered as part of the project design. Include an explanation of why alternative water and alternative cooling are supplies "environmentally undesirable," or "economically unsound";	N/A	N/A	
Appendix B (g) (14) (vi)	The effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones ; and	Section 5.5.3.4	Yes	
Appendix B (g) (14) (vii)	All assumptions, evidence, references, and calculations used in the analysis to assess these effects.	Section 5.5.5.4 Appendix A and I-3 <u>Supplemental AFC, pg.34</u>	<u>Yes</u> No	Please include the effects of project demand on potable water supply if recycled water system is not available as expected.

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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	Section 5.5.5 Table 5.5-5	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 5.5.7 Table 5.5-7	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 5.5.6 Table 5.5-6	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.5-7 Table 5.5-7	Yes	