

Memorandum

Date: August 19, 2009
Telephone: (916) 654-4996

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

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



DOCKET 09-AFC-3
DATE <u>8/19/2009</u>
RECD. <u>8/19/2009</u>

Subject: MARIPOSA ENERGY PROJECT, REVISED DATA ADEQUACY RECOMMENDATION (09-AFC-3)

On June 15, 2009, the California Energy Commission received an Application for Certification (AFC) from Mariposa Energy, LLC to construct and operate the Mariposa Energy Project (MEP). The MEP would be a natural-gas fired, simple cycle peaking facility with a generating capacity of 200 megawatts (MW). The proposed project site is in northeastern Alameda County, in an unincorporated area designated for Large Parcel Agriculture by the East County Area Plan. The site is located approximately seven miles northwest of Tracy, seven miles east of Livermore, six miles south of Byron, and approximately 2.5 miles west of the community of Mountain House in San Joaquin County.

Staff's July 9, 2009 initial data adequacy review of the Mariposa Energy, LLC's AFC determined that it does not meet all the requirements listed in Title 20, section 1704, and Division 2, Chapter 5, Appendix B of the California Code of Regulations for the 12-month process. Specifically, the AFC was deficient in eight of 23 areas: 1) Air Quality, 2) Biological Resources, 3) Cultural Resources, 4) Geological Hazards, 5) Land Use, 6) Project Overview, 7) Traffic and Transportation, and 8) Transmission System Design (Engineering). At the July 29, 2009 Business Meeting, the Energy Commission accepted staff's initial data adequacy recommendation.

On July 31, 2009, the Mariposa Energy, LLC filed their AFC Supplement. Staff has reviewed the Supplemental information and believes the AFC now meets the above listed requirements in all eight of the previously deficient technical disciplines. Attached are summary table and data adequacy worksheets for the eight technical disciplines previously determined to be deficient reflecting that the supplemental information submitted by the applicant achieves data adequacy. At the Energy Commission's business meeting on August 26, 2009, I will recommend that the Energy Commission accept the Mariposa Energy Project AFC with the supplemental information as complete and request that a Committee be appointed. If you have any questions, please call Alan Solomon, staff's Project Manager, at (916) 653-8236.

Attachments

Attachment A
Overview of Energy Commission Staff's
Revised Data Adequacy Determination
Mariposa Energy Project
09-AFC-3

Technical Area	Attachment B Page No.	Adequate ?
AIR QUALITY	4	YES
BIOLOGICAL RESOURCES	11	YES
CULTURAL RESOURCES	20	YES
GEOLOGICAL HAZARDS.....	28	YES
LAND USE	31	YES
PROJECT OVERVIEW	36	YES
TRAFFIC AND TRANSPORTATION	41	YES
TRANSMISSION SYSTEM DESIGN	46	YES

ATTACHMENT B

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

**Mariposa Energy Project
09-AFC-3**

August 19, 2009

Adequacy Issue: Adequate Inadequate
 Technical Area: Air Quality
 Project Manager: Alan Solomon

DATA ADEQUACY WORKSHEET

Revision No. 1 Date August 19, 2009

Project: Mariposa Energy Project Technical Staff: Jacquelyn Leyva
 Docket: 09-AFC-3 Technical Senior: Matthew Layton

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 5.1.1 pp. 5.1-1 to 5.1-2 Section 5.1.2 Section 5.1.4 pp. 5.1-10 to 5.1-30 Section 5.1.5 Section 5.1.6 Appendices 5.1A & 5.1B	Yes	
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	<u>Supplement A</u> <u>Attachment DA5.1-1</u>	No <u>Yes</u>	Please provide a copy of the District Notice of Completeness for the proposed project.
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 2.3 pp. 2-2 to 2-17 Figures 2.3-2A & B Figure 2.3-1 Figure 2.3-3 Figure 2.3-4	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 2.3.11 pp. 2-27 to 2-28 Section 5.1.6.2.2 p. 5.1-32	Yes	
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Section 2.3.8 pp. 2-17 to 2-24 Figure 2.3-5A & B Table 2.3-3	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.	Sections 5.1.4.1 to 5.1.4.2 pp. 5.1-10 to 5.1-18 Table 5.1-9 & 5.1-10 Appendices 5.1A & 5.1B	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.	Sections 5.1.4.1.3 pp. 5.1-13 to 5.1-14 Table 5.1-12 & 5.1-13 Appendices 5.1A & 5.1B	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 5.1.4.1.2 Table 5.1-11 Appendix 5.1B Table 5.1B-1	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 5.1.3 pp. 5.1-4 to 5.1-9 Tables 5.1-3 to 5.1-8 Section 5.1.4.3.1 pp. 5.1-18 to 5.1-23	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 5.1.1.2 Section 5.1.4.3.1 Table 5.1-21 pp. 5.1-18 to 5.1-22 Appendix 5.1C Table 5.1C-12a & 12b On CD	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.	Section 5.1.1.2 Section 5.1.4.3.1 Table 5.1-21 pp. 5.1-18 to 5.1-22 Appendix 5.1C Table 5.1C-12a & 12b On CD	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.	Appendix 5.1C Tables 5.1C-10a & -10b Tables 5.1C-12a & -12b Figures 5.1C-1a to -1e On CD	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:	Appendix 5.1D Section 5.0 p. 18 See Below On CD	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 5.1.4.3.3 Table 5.1-24 pp. 5.1-27 Appendix 5.1C Table 5.1C-7 Table 5.1C-8 Table 5.1C-9 On CD	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 5.1.4.1 pp. 5.1-10 to 5.1-17 Section 5.1.4.3 pp. 5.1-18 to 5.1-28 Appendix 5.1B Tables 5.1B.3 to 5.1B.6 Appendix 5.1C Tables 5.1C-5 & -6 Figure 5.1C-5 On CD	Yes	

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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 5.1.4.3.3 Table 5.1-26 pp. 5.1-28 & -29 Appendix 5.1D Sections 3.4 to 3.6 pp. 11 to 15 Appendix 5.5A	Yes	
Appendix B (g) (8) (I) (iv)	An air dispersion modeling analysis of the impacts of the initial commissioning phase emissions on state and federal ambient air quality standards for NO _x , SO ₂ , CO, PM ₁₀ , and PM _{2.5} .	Section 5.1.4.3.2 pp. 5.1-23 to 5.1-24 Appendix 5.1B Table 5.1B-1 Appendix 5.1C Table 5.1C-1, -2, & -11 Appendix 5.1D Section 3.6.2 (p. 14) On CD	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:	Sections 5.1.7.1 to 5.1.7.3 pp. 5.1-34 to 5.1-40 Appendix 5.1E	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 5.1.6.2.1 p. 5.1-31 Table 5.1-28 Sections 5.1.7.1 to 5.1.7.3 pp. 5.1-34 to 5.1-40 Appendix 5.1E	Yes	

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Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions;	Section 5.1.6.2.1 p. 5.1-31 Table 5.1-28 <u>Confidential Attachment DA 5.1-2</u>	No <u>Yes</u>	Table 5.1-28 and the discussion address the quantity of emission credits necessary for district compliance. Please provide a description of the potential sources, location and quantity of emission reductions for both district compliance and CEQA mitigation.
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 5.1.6 pp. 5.1-30 to 5.1-33 Confidential Attachment DA 5.1-2	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	Section 5.1.7 pp. 5.1-33 to 5.1-43 Table 5.1-30 pp. 5.1-35 to 5.1-39 Table 5.1-31 pp. 5.1-40 Table 5.1-32 pp. 5.1-41 to 5.1-43	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 5.1.7 pp. 5.1-33 to 5.1-43 Table 5.1-30 pp. 5.1-35 to 5.1-39 Table 5.1-31 pp. 5.1-40 Table 5.1-32 pp. 5.1-41 to 5.1-43	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 5.1.8 p. 5.1-44 Table 5.1-33	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 5.1.9 p.5.1-44	Yes	

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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: Section 5.2.1.2 Direct, indirect, and cumulative impacts: Sections 5.2.2 and 5.2.3 Mitigation measures and monitoring: Section 5.2.4	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 and map of terrestrial and aquatic bio resources within 10 miles of project: Section 5.2.1.1 Boundaries of local habitat conservation plan areas: Figure 5.2-1	Yes Yes	
Appendix B (g) (13) (A) (i)	species listed under state or federal Endangered Species Acts;	State or federal listed species: Table 5.2-3	Yes	
Appendix B (g) (13) (A) (ii)	resources defined in sections 1702(q) and (v) of Title 20 of the California Code of Regulations;	Resources listed under Title 20 of the CCR: Table 5.2-3	Yes	
Appendix B (g) (13) (A) (iii)	species identified as state Fully Protected;	Fully protected species: Table 5.2-3	Yes	
Appendix B (g) (13) (A) (iv)	species covered by Migratory Bird Treaty Act;	Migratory Bird Treaty Act species: Table 5.2-2	Yes	

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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	Listed species and other sensitive species identified by CNDDB, local coastal programs, or CCC decisions: Figure 5.2-3	Yes	
Appendix B (g) (13) (A) (vi)	fish and wildlife species that have commercial and/or recreational value.	Fish and wildlife species of commercial and/or recreational value: N/A	N/A	
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:	List of species observed: Table 5.2-2	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;	Maps or aerial photographs showing project site and related facilities and biological resources: Figures 5.2-3 and 5.2-4	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	Thermal plume depiction: 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.	Wetlands delineation maps showing potential wetlands: Figure 5.2-2	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:	Discussion of biological resources at all proposed project facilities: Section 5.2.2	Yes	

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Appendix B (g) (13) (C) (i)	A list of all the species actually observed;	List of all species observed: Tables 5.2-2 and 5.2-4	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	List of sensitive species and habitat with potential to occur: Table 5.2-3	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.	Description of intake and discharge: 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:	Field studies and results: Copies of CNNDDB field survey forms: <u>Supplement A</u> Dates, methods, and names/qualifications of those involved with field surveys: Section 5.2.1.7	Yes No <u>Yes</u> Yes	Please provide copies of CNNDDB field survey forms for all sensitive species documented during field 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;	Biological resources surveys using appropriate survey protocols: Section 5.2.1.7	Yes	

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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	Seasonal aquatic resources survey results for projects proposing to use surface water for cooling: N/A	N/A	
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.	Army Corps of Engineers wetland delineation status, names/qualification of biologist(s) completing the delineation, and wetland acreage: <u>Supplement A; Attachment DA 5.2-2</u>	No <u>Yes</u>	Please provide completed wetland delineation forms.
Appendix B (g) (13) (E)	Impacts discussion of the following:	-	-	

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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;	Direct, indirect, and cumulative impacts including cooling tower drift: Section 5.2.2.3.1	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 rate of cooling water flow at the intake and discharge location; and	Cooling Water Intake details: N/A	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.	Cooling water discharge: N/A	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;.	Mitigation measures: Section 5.2.4	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;	Off-site habitat compensation and contact information: Section 5.2.4.3	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Alan Solomon

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Project: Mariposa Energy Project Technical Staff: Rick York
 Docket: 09-AFC-3 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) (13) (F) (iii)	Design features to better disperse or eliminate a thermal discharge;	Thermal discharge design features: 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	Intake impacts avoidance: N/A	N/A	
Appendix B (g) (13) (F) (v)	Educational programs to enhance employee awareness during construction and operation to protect biological resources.	Worker awareness training: Section 5.2.4.1	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.	Compliance monitoring: Section 5.2.4	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.	Copies of any preliminary correspondence with state and federal agencies: Table 5.2-7	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Alan Solomon

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 Docket: 09-AFC-3 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 (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	LORS table: table 5.2-8	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.	Agency/LORS table: table 5.2-8	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.	Name, title, contact info for agency contacts: section 5.2.6	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.	Schedule of permits outside the Commission authority: Section 5.2.7	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: Alan Solomon

DATA ADEQUACY WORKSHEET

Revision No. 1 Date August 19, 2009
 Technical Staff: Beverly Bastian
 Technical Senior: Rick York

Project: Mariposa Energy Project
 Docket: 09-AFC-3

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, Sec. 1.0, p. 1-1 impacts due to project: Vol. 1, Sec. 5.3, pp. 5.3-16–5.3-17 measures to mitigate known impacts: Vol. 1, Sec. 5.3, pp. 5.3-17–5.3-19 effectiveness of the proposed measures any monitoring plans proposed to verify the effectiveness of the mitigation	Yes Yes Yes N/A 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: Vol. 1, Sec. 5.3, pp. 5.3-2–5.3-7	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: Alan Solomon

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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) (B)	<p>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.</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>Literature searches: Vol. 1, Sec. 5.3, pp. 5.3-10–5.3-11</p> <p>Cultural resources listed under a city or county ordinance: <u>Data Adequacy Supplement A, p. 34</u></p> <p>Cultural resources recognized by local societies: Vol. 1, Sec. 5.3, p. 5.3-15</p> <p>Names/quals for lit searchers/directors: Vol. 2, App. 5.3D</p> <p>DPR523s for known resources: <u>Data Adequacy Supplement A, Attachment DA5.3-1</u></p> <p>Map of lit search area with past surveys and CHRIS #: Vol. 2, App. 5.3E, Figs. 5.3-1B and 5.3-1C</p> <p>CHRIS reports: <u>Data Adequacy Supplement A, p. 34 and Attachments DA5.3-2 and DA5.3-3</u></p>	<p>Yes</p> <p>No Yes</p> <p>Yes</p> <p>Yes</p> <p>No Yes</p> <p>Yes</p> <p>No Yes</p>	<p>Please make inquiries about cultural resources listed under a city or county ordinance and provide any resulting information to the Commission.</p> <p>Please provide the DPR523 forms for the following previously known built environment resources, located within the one-mile radius literature search area: P-01-10435, P-01-10438, P-01-10439, P-01-10442, and P-07-2547.</p> <p>Two reports for cultural resources surveys covering areas wholly or partly within 0.25 mile of the proposed plant site were not included in Vol. 2, App. 5.3C. Please provide copies of CHRIS reports S-012300 and S-023674.</p>

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: Alan Solomon

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Project: Mariposa Energy Project Technical Staff: Beverly Bastian
 Docket: 09-AFC-3 Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C)	<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 urban and suburban areas shall be conducted along the routes of all linear facilities to identify, inventory, and characterize structures and</p>	<p>Names/quals for archaeological surveyors or directors: Vol. 2, App. 5.3D</p> <p>Names/quals for historical architecture surveyors or directors: Vol. 2, App. 5.3D</p> <p>Survey coverage, archaeology: Vol. 2, App. 5.3B, Figure 1</p> <p>Survey coverage, architecture: Vol. 2, App. 5.3B, Figure 1</p> <p>Tech report for new archaeological survey: Vol. 2, App. 5.3B</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: Alan Solomon

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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) cont	<p>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>	Technical report for new architectural survey: Vol. 2, App. 5.3B	Yes	
Appendix B (g) (2) (C) cont.	Information included in the technical report shall also be provided in the Application for Certification, except that confidential information (archaeological sites or areas of religious significance) shall be submitted under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq. At a minimum, the technical report shall include the following:	Vol. 1, Sec. 5.3, pp. 5.3-1–5.3-27	Yes	
Appendix B (g) (2) (C) (i)	The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);	<p>Summary: Vol. 2, App. 5.3B, pp. 1–7</p> <p>Literature search results: Vol. 2, App. 5.3B, pp. 8–10</p>	<p>Yes</p> <p>Yes</p>	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: Alan Solomon

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Project: Mariposa Energy Project Technical Staff: Beverly Bastian
 Docket: 09-AFC-3 Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C) (ii)	The survey procedures and methodology used to identify cultural resources and a discussion of the cultural resources identified by the survey;	Archaeological methodology: Vol. 2, App. 5.3B, pp. 10–11	Yes	
		Historical architecture methodology: Vol. 2, App. 5.3B, pp. 11–12	Yes	
Appendix B (g) (2) (C) (iii)	Copies of all new and updated DPR 523(A) forms. If a cultural resource may be impacted by the project, also include the appropriate DPR 523 detail form for each such resource;	Archaeological forms: N/A	Yes	
		Architecture forms: Vol. 2, App. 5.3B, App. A	Yes	
Appendix B (g) (2) (C) (iv)	A map at a scale of 1:24,000 U.S. Geological Survey quadrangle depicting the locations of all previously known and newly identified cultural resources compiled through the research required by Appendix B (g)(2)(B) and Appendix B (g)(2)(C) (ii); and	Archaeology and architecture map: <u>Data Adequacy Supplement A, Confidential Fig. 5.3-1AR</u>	No Yes	Known resource P-07-2547 is not plotted on this map.
Appendix B (g) (2) (C) (v)	The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report.	Names/quals for archaeologists: Vol. 2, App. 5.3D	Yes	
		Names/quals for architectural historians: Vol. 2, App. 5.3D	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: Alan Solomon

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 Technical Staff: Beverly Bastian
 Technical Senior: Rick York

Project: Mariposa Energy Project
 Docket: 09-AFC-3

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) (D)	Provide a copy of your request to the Native American Heritage Commission (NAHC) for information on Native American sacred sites and lists of Native Americans interested in the project vicinity, and copies of any correspondence received from the NAHC. Notify the Native Americans on the NAHC list about the project, including a project description and map. Provide a copy of all correspondence sent to Native American individuals and groups listed by the NAHC and copies of all responses. Provide a written summary of any oral responses.	NAHC request: Vol. 2, App. 5.3A NAHC response: Vol. 2, App. 5.3A Letters sent to Native Americans: <u>Data Adequacy Supplement A, Attachment DA5.3-4</u> Letters received from Native Americans: Vol. 1, Sec. 5.3, p. 5.3-15 Summary of oral responses from Native Americans: <u>Data Adequacy Supplement A, p. 34</u>	Yes Yes No <u>Yes</u> Yes No <u>Yes</u>	Applicant needs to submit copies of letters sent to Native Americans on the list provided by the NAHC. Applicant needs to provide a summary of oral responses obtained during the consultation indicated in Vol. 1, Sec. 5.3, p. 5.3-15;
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, Sec. 5.3, p. 5.3-17	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, Sec. 5.3, pp. 5.3-17–5.3-19	Yes	
Appendix B (g) (2) (E) (iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural resources.	Worker education programs: Vol. 1, Sec. 5.3, pp. 5.3-17–5.3-18	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Cultural Resources
 Project Manager: Alan Solomon

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Project: Mariposa Energy Project Technical Staff: Beverly Bastian
 Docket: 09-AFC-3 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 (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	<p>Tables identifying applicable LORS: Vol. 1, Sec. 5.3, Table 5.3-5, p. 5.3-19</p> <p>Explicitly referenced pages: <u>Data Adequacy Supplement A, Table 5.3-5R</u></p> <p>Discussion of applicability of LORS: Vol. 1, Sec. 5.3, pp. 5.3-20–5.3-22</p>	<p>Yes</p> <p>No <u>Yes</u></p> <p>Yes</p>	<p>Applicant needs to add to Table 5.3-5 the application page numbers where conformance with each law, during both construction and operation, is discussed.</p>
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 agencies: Vol. 1, Sec. 5.3, Table 5.3-6, p. 5.3-23	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Official within each agency who will serve as a contact person for the agency: Vol. 1, Sec. 5.3, Table 5.3-6, p. 5.3-23	Yes	

Adequacy Issue: Adequate Inadequate

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Technical Area: Cultural Resources

Project: Mariposa Energy Project

Technical Staff: Beverly Bastian

Project Manager: Alan Solomon

Docket: 09-AFC-3

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 (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 indicating when outside permits will be obtained: Vol. 1, Sec. 5.3, p. 5.3-23	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: **Geological Hazards**
 Project Manager: Alan Solomon

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Revision No. 1 Date August 19, 2009
 Technical Staff: Patrick Pilling, Ph.D., P.E.
 Technical Senior: Steve Baker

Project: Mariposa Energy Project
 Docket: 09-AFC-3

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 2.1, page 2-1; Section 5.4.1, page 5.4-1; Section 5.4.3, page 5.4-11; Section 5.4.4, page 5.4-11	Yes	
Appendix B (g) (17) (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities, including linear facilities.	Section 5.4.1.1, page 5.4-1; Section 5.4.1.2, page 5.4-1; Section 5.4.1.4, page 5.4-9; Section 5.4.2.3, page 5.4-11; appendix 2C	Yes	
Appendix B (g) (17) (B)	A map at a scale of 1:24,000 and description of all recognized stratigraphic units, geologic structures, and geomorphic features within two (2) miles of the project site and along proposed facilities. Include an analysis of the likelihood of ground rupture, seismic shaking, mass wasting and slope stability, liquefaction, subsidence, tsunami runup, and expansion or collapse of soil structures at the plant site. Describe known geologic hazards along or crossing linear facilities.	Section 5.4.1.2.1, page 5.4-2; Section 5.4.1.2.2, page 5.4-2; Section 5.4.1.3, page 5.4-8; Section 5.4.2.2, page 5.4-10; Figure 5.4-1; Figure 5.4-2 <u>AFC Supplement A, page 45</u>	No <u>Yes</u>	Please discuss the potential for a tsunami/seiche to affect the site.

Adequacy Issue: Adequate Inadequate
 Technical Area: Geological Hazards
 Project Manager: Alan Solomon

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Revision No. 1 Date August 19, 2009
 Technical Staff: Patrick Pilling, Ph.D., P.E.
 Technical Senior: Steve Baker

Project: Mariposa Energy Project
 Docket: 09-AFC-3

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (17) (C)	A map and description of geologic resources of recreational, commercial, or scientific value which may be affected by the project. Include a discussion of the techniques used to identify and evaluate these resources.	Section 5.4.1.4, page 5.4-9; Section 5.4.2.3, page 5.4-11	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 5.4-2; Section 5.4.5, page 5.4-12	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 5.4.6, page 5.4-12	Yes	

Adequacy Issue: Adequate Inadequate

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Technical Area: **Geological Hazards**

Project: Mariposa Energy Project

Technical Staff: Patrick Pilling, Ph.D., P.E.

Project Manager: Alan Solomon

Docket: 09-AFC-3

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Section 5.4.6, page 5.4-12;	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 5.4.7, page 5.4-13	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Alan Solomon

DATA ADEQUACY WORKSHEET

Revision No. 1 Date August 19, 2009

Project: Mariposa Energy Project
 Docket: 09-AFC-3

Technical Staff: Robert Fiore
 Technical Senior: David Flores

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Pages 5.6-1 through 5.6-33, Sections 5.6.1 through 5.6.7	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:	Pages 5.6-1 through 5.6-13, Sections 5.6.1.1 through 5.6.1.4 Figures 5.6-1 through 5.6-4	Yes	
Appendix B (g) (3) (A) (i)	An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;	Pages 5.6-11 through 5.6-13, Section 5.6.1.3	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;	Mariposa Energy Project, Supplement A, Section 5.6, Page 47	No Yes	Please list 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.

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Alan Solomon

DATA ADEQUACY WORKSHEET

Revision No. 1 Date August 19, 2009

Project: Mariposa Energy Project
 Docket: 09-AFC-3

Technical Staff: Robert Fiore
 Technical Senior: David Flores

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (A) (iii)	Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and	Mariposa Energy Project, Supplement A, Section 5.6, Page 47-48	No Yes	Please identify all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application.
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 5.6-1 through 5.6-4	Yes	
Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed project with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agencies. The discussion shall identify the need, if any, for land use decisions by another public agency or as part of the commission's decision that would be necessary to make the project conform to adopted federal, state, regional, or local coastal plans, land use plans, or zoning ordinances. Examples of land use decisions include: general plan amendments, zoning changes, lot line adjustments, parcel mergers, subdivision maps, Agricultural Land Conservation Act contracts cancellation, and Airport Land Use Plan consistency determinations.	Page 5.6-2 through 5.6-15, Sections 5.6.1.2 through 5.6.1.5 Pages 5.6-17 through 5.6-18, Section 5.6.2.2.2 Pages 5.6-19 through 5.6-29, Section 5.6.2.3	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date August 19, 2009

Technical Area: Land Use

Project: Mariposa Energy Project

Technical Staff: Robert Fiore

Project Manager: Alan Solomon

Docket: 09-AFC-3

Technical Senior: David Flores

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (C)	A discussion of the legal status of the parcel(s) on which the project is proposed. If the proposed site consists of more than one legal parcel, describe the method and timetable for merging or otherwise combining those parcels so that the proposed project, excluding linears and temporary laydown or staging area, will be located on a single legal parcel. The merger need not occur prior to a decision on the Application but must be completed prior to the start of construction.	Appendix 1A, Title Report	Yes	
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:	Pages 5.6-18 through 5.6-19, Sections 5.6.2.2.4 through 5.6.2.2.5 Figure 5.6-4	Yes	
Appendix B (g) (3) (D) (i)	Crop types, irrigation systems, and any special cultivation practices;	Page 5.11-1, Section 5.11.1	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	Pages 5.6-1 through 5.6-2, Section 5.6.1.1 Pages 5.6-18 through 5.6-19, Sections 5.6.2.2.4 and 5.6.2.2.5 Figures 5.6-4	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date August 19, 2009

Technical Area: Land Use

Project: Mariposa Energy Project

Technical Staff: Robert Fiore

Project Manager: Alan Solomon

Docket: 09-AFC-3

Technical Senior: David Flores

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) (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.	Pages 5.6-1 through 5.6-2, Section 5.6.1.1 Pages 5.6-18 through 5.6-19, Sections 5.6.2.2.4 and 5.6.2.2.5	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	Pages 5.6-19 through 5.6-29, Sections 5.6.2.3, Table 5.6-3 Page 5.6-31, Section 5.6.5.3, Table 5.6-4 Pages 5.6-30 through 5.6-31, Sections 5.6.5.1 through 5.6.5.3	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 5.6-32, Section 5.6.6, Table 5.6-5	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date August 19, 2009

Technical Area: Land Use

Project: Mariposa Energy Project

Technical Staff: Robert Fiore

Project Manager: Alan Solomon

Docket: 09-AFC-3

Technical Senior: David Flores

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.	Page 5.6-32, Section 5.6.6, Table 5.6-5	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		N/A	

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: Alan Solomon

DATA ADEQUACY WORKSHEET

Revision No. 1 Date August 19, 2009
 Project: Mariposa Energy Project Technical Staff: Kevin Le
 Docket: 09-AFC-03 Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	AFC Section 5	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	AFC Section 5	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	AFC Section 5	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.	AFC Section 5	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.	Sec 2.1, 2.2 (p.2-1 to 2-2) Sec 2.3 (p.2-2 to 2-23) Sec 2.3.6 (p.2-17) Sec 2.3.8 (p.2-17 to 2-24) Sec 2.3.11 (p.2-27)	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: Alan Solomon

DATA ADEQUACY WORKSHEET

Project: Mariposa Energy Project
 Docket: 09-AFC-03

Revision No. 1 Date August 19, 2009
 Technical Staff: Kevin Le
 Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessor's parcel numbers.	Sec 2.1 (p.2-1)	Yes	
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Fig 1.1-2, 1.1-3	Yes	
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	<u>Fig DA2.0-1A to DA2.0-1D of Supplement A</u>	<u>No-Yes</u>	Please provide the full page color photo reproduction depicting the visual appearance of the site prior to construction.
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	Appdx 1B	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.	Sec 1.3 (p1-10)	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: Alan Solomon

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Revision No. 1 Date August 19, 2009

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 Docket: 09-AFC-03

Technical Staff: Kevin Le
 Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (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.	Sec 1.2 (p1-10)	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	<u>Section 2.0 (p.3)</u>	<u>No-Yes</u>	Please include the name of the owner/operator of the proposed 0.7 mile long single circuit, three phase, 230 kV transmission line.
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Section 1.1 (p.1-1)	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;	Fig. 1.1-3 <u>Fig. DA 2.0-2</u>	<u>No-Yes</u>	Please revise figure 1.1-3 to include the identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number.
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);	Fig. 2.3-2 A, 2.3-2 B	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: Alan Solomon

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Revision No. 1 Date August 19, 2009
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Project: Mariposa Energy Project
 Docket: 09-AFC-03

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	Sec 2.3 (p.2-2 to 2-13) Sec 2.3.16 (p.2-32 to 2-33) Sec 2.3.7 (p.2-17) Sec 2.3.8 (p.2-17 to 2-24) Sec 2.3.9 (p.2-24 to 2-26) Sec 2.3.11 (p.2-27) Sec 2.3.6 (p.2-17) Sec 2.3.13 (p.2-29 to 2-30)	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.	Sec 6.3 (p.6-3 to 6-18)	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);	Trans Lines Fig. 3.2-1, Fig. 5.6-1 and 5.6-2 Settled Areas, Parks, Recreational Areas, Scenic Areas Fig. 5.6-1 and 5.6-2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: Alan Solomon

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Revision No. 1 Date August 19, 2009

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 Docket: 09-AFC-03

Technical Staff: Kevin Le
 Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	<u>Fig. DA-2.0-3A , DA2.0-3B</u> <u>Fig DA-2.0-4A, DA2.0-4B</u>	No <u>Yes</u>	Please include 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 1.1-3 and 5-13-2 through 5-13-5 do not adequately reflect the above information.
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.	Sec 2.3.5 (p.2-13 to 2-17)	Yes	
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints; and	Sec 6.5.1.2. (p.6-14) Sec 6.5.2 (p.6-14)	Yes	
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Sec 2.5 (p.2-40 to 2-41)	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Alan Solomon

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Revision No. 1 Date August 19, 2009

Project: Mariposa Energy Project
 Docket: 09-AFC-03

Technical Staff: James Adams
 Technical Senior: David Flores

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.	PP. 5.12-1 through 12-37 Section 5.12 PP. 1 & 2 Appendix 5.12A PP. 1 through 5 Appendix 5.12B	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 5.12-1 PP. 5.12-11 & 12 Section 5.12.1.4.2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Alan Solomon

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Revision No. 1 Date August 19, 2009

Project: Mariposa Energy Project Technical Staff: James Adams
 Docket: 09-AFC-03 Technical Senior: David Flores

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) (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. 5.12-13 Section 5.12.1.8 Figure 5.12-2 PP. 5.12-19 & 20 Pg. 5.13-38 Section 5.13.2.5	Yes	
Appendix B (g) (5) (C)	An identification, on topographic maps at a scale of 1:24,000, and a description of existing and planned roads, rail lines, (including light rail), bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	Figure 5.12-2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Alan Solomon

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Project: Mariposa Energy Project
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Technical Staff: James Adams
 Technical Senior: David Flores

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) (i)	Road classification and design capacity;	PP. 5.12-1 & 2 Section 5.12.1.1 Pg. 5.12-7 Section 5.12.1.2.1 <u>Supplemental Filing July 2009</u>	No <u>Yes</u>	Please provide design capacity for Kelso, Mountain House, and West Grant Line Roads.
Appendix B (g) (5) (C) (ii)	Current daily average and peak traffic counts;	Pg. 5.12-1 Section 5.12.1.1.1 Table 5.12-3 Pg. 5.12-35 <u>Supplemental Filing July 2009</u>	No <u>Yes</u>	Please provide peak traffic counts for the local roads other than the interstates.
Appendix B (g) (5) (C) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Table 5.12-3 Pg. 5.12-35 Table 5.12-7 Pg. 5.12-37	Yes	
Appendix B (g) (5) (C) (iv)	Weight and load limitations;	Pg. 5.12-11 Section 5.12.1.3 PP. 5.12-26 & 27	Yes	
Appendix B (g) (5) (C) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Pg. 5.12-2 Section 5.12.1.1 <u>Supplemental Filing July 2009</u>	No <u>Yes</u>	Please provide estimated percentage of current traffic flows for passenger vehicles and trucks for the local roads other than the interstates.
Appendix B (g) (5) (C) (vi)	An identification of any road features affecting public safety.	<u>Supplemental Filing July 2009</u>	No <u>Yes</u>	Please identify any road features affecting public safety.

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Alan Solomon

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Revision No. 1 Date August 19, 2009

Project: Mariposa Energy Project Technical Staff: James Adams
 Docket: 09-AFC-03 Technical Senior: David Flores

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)©. 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)©.	PP. 5.12-14 through 12-16 Section 5.12.2.2.1 Table 5.12-7	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. 1-9 Section 1.1.2 PP. 5.12-16 & 17 Section 5.12.2.3 <u>Supplemental Filing July 2009</u>	No <u>Yes</u>	Please provide discussion of project-related hazardous materials to be transported to or from the project during operation of the project.
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 5.12-9 PP. 5.12-29 & 30 Section 5.12.5.4 Table 5.12-10 Pg. 5.12-31 Section 5.12.6	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Alan Solomon

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Revision No. 1 Date August 19, 2009

Project: Mariposa Energy Project Technical Staff: James Adams
 Docket: 09-AFC-03 Technical Senior: David Flores

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 5.12-10 Pg. 5.12-31 Section 5.12.6	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 5.12-10 Pg. 5.12-31 Section 5.12.6	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.	Table 5.12-10 Pg. 5.12-31 Section 5.12.6	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Alan Solomon

DATA ADEQUACY WORKSHEET
 Project: Mariposa Energy Project
 Docket: 09-AFC-3

Revision No. 1 Date August 19, 2009
 Technical Staff: Ajoy Guha, P.E.
 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 2.3.5.1, Page 2-13. Section 3.2, Pages 3-1 to 3-2. Figure 2.3-4,	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 3.2, Page 3-1. Figures 3.2-1. AFC Supplement A-Response to Data Adequacy Review. Figure DA 3.0-2	No Yes	Provide an physical layout drawing (or resubmit Figure 3.2-1) showing distinctly the route of the proposed) 0.7-mile 230 kV overhead interconnection line including Right of Way (ROW) width between the proposed Mariposa Energy Project (MEP) 230 kV switchyard and existing PG&E 230 kV Kelso substation. Describe whether the ROW would be through private and/or public lands.

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Alan Solomon

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Project: Mariposa Energy Project
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 Technical Staff: Ajoy Guha, P.E.
 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.	<p>Section 3.2.1, Pages 3-1. Figure 3.2-2. <u>AFC Supplement A-Response to Data Adequacy Review. Figures 3.2-2R & DA3.0-1</u></p> <p>Section 2.3.5.1, Page 2-13 Section 3.2, Page 3-1. Figure 2.3-4.</p> <p><u>AFC Supplement A-Response to Data Adequacy Review. Figure 2.3-4R. Attachments DA3.0-1 & DA3.0-2.</u></p>	<p>No</p> <p>Yes</p>	<p>Submit Pole design diagram (or resubmit Figure 3.2-2) including dead end structures for the 230 kV generator overhead tie line showing configuration of insulators and conductors (with sizes, type and ampere rating) with their respective position measurements on the pole.</p> <p>Submit a complete electrical one-line diagram (or resubmit Figure 2.3-4 with missing elements or sizes/ratings) of the proposed MEP 230 kV switchyard showing all equipment for all new generators' interconnection with the switchyard along with their respective sizes and/or ratings as follows: i) Any bus duct connectors or overhead conductors or cables, 13.8 kV switchgear, buses, breakers & disconnect switches on the low side of each Generator step-up transformer (GSU). ii) The GSU and short overhead conductors and/or cables from the GSU to the switchyard with the configuration for the switchyard buses, breakers, disconnect switches on the 230 kV side, along with the proposed tie line transmission outlet from the switchyard.</p>

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Alan Solomon

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Project: Mariposa Energy Project
 Docket: 09-AFC-3

Revision No. 1 Date August 19, 2009
 Technical Staff: Ajoy Guha, P.E.
 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) cont		Section 3.2.2, Page 3-2.		Provide a one-line electrical diagram showing the pre-project PG&E Kelso 230 kV substation with the existing the transmission outlets along with the configuration for buses, breakers, disconnect switches, and their respective sizes and/or ratings. Also provide a one-line electrical diagram showing the post-project Kelso 230 kV substation with the proposed 230 kV generator tie line interconnection facilities for buses, breakers and disconnect switches and their respective sizes and/or ratings. Provide a physical layout drawing of the pre and post-project Kelso substation showing all major equipment and transmission outlets.
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 3.2-1, Page 3-1. Section 6.5.1.2, Page 6-14. AFC Supplement A-Response to Data Adequacy Review. Section 3.6, Figure DA3.0-2.	No Yes	Show alternate routes in Figure 3.2-1 and describe how the route of the proposed 230 kV generator tie line is selected by comparing with alternate routes and their environmental effects.

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Alan Solomon

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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 (b) (2) (E)	<p>A completed System Impact Study or signed System Impact Study Agreement with the California Independent System Operator (CA ISO) 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 3.3, Page 3-2 to 3-3.</p> <p>Appendix 3A, Screening Level Transmission Analysis</p> <p>AFC Supplement A-Response to Data Adequacy Review. Attachment DA3.0-3</p>	<p>No</p> <p>Yes</p>	<p>Submit a signed Large Generator Interconnection study Agreement (LGISA) with the California ISO and its proof of payment with a study plan.</p> <p>Note: The submitted Screening Level Transmission Analysis has a limited scope and is not, therefore, acceptable for the Energy Commission's AFC process in lieu of a System Impact study or Phase 1 Interconnection study from the California ISO.</p>
Appendix B (i) (1) (A)	<p>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</p>	<p>Section 3.5, Page 3-11. Table 3.5-1.</p>	<p>Yes</p>	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Alan Solomon

DATA ADEQUACY WORKSHEET

Project: Mariposa Energy Project
 Docket: 09-AFC-3

Revision No. 1 Date August 19, 2009
 Technical Staff: Ajoy Guha, P.E.
 Technical Senior: Mark Hesters

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 3.5.7, Page 3-14. Table 3.5-7.	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 3.5, Page 3-11. Appendix 1C.	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 3.5.7, Page 3-14.	Yes	