State Of California

The Resources Agency of California

Memorandum

Date: September 18, 2008
Telephone: (916) 654-4966

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

DOCKET
08-AFC-3
DATE SEP 18 2008
RECD. SEP 18 2008

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

Subject: **MARSH LANDING GENERATING STATION REVISED DATA ADEQUACY RECOMMENDATION (08-AFC-3)**

Staff's June 10, 2008 initial data adequacy review of the Marsh Landing Generating Station Application for Certification (AFC) submitted on May 30, 2008, determined that it did not meet all the requirements listed in Title 20, section 1704, and Division 2, Chapter 5, Appendix B of the California Code of Regulations for the 12-month process. Specifically, the AFC was deficient in 6 of 23 areas: air quality, biological resources, cultural resources, paleontological resources, traffic and transportation and transmission system design.

On September 15, 2008 Mirant Marsh Landing, LLC, submitted final supplemental information and staff believes the AFC now meets the above-listed requirements in all six of the previously deficient technical disciplines. The applicant will formally file one hundred and twenty-five copies of the AFC Supplement on September 19, 2008. Attached is a summary table and revised data adequacy worksheets for the six technical disciplines previously determined to be data inadequate, reflecting staff's belief that the supplemental information provided by Mirant Marsh Landing, LLC, satisfies the data deficiencies specified by the California Energy Commission at the July 2, 2008 Business Meeting.

At the Energy Commission's business meeting on September 24, 2008, I will recommend that the Energy Commission accept the AFC, with the supplemental information, as data adequate, and appoint a Committee. If you have any questions, please contact Mike Monasmith, staff's Project Manager, at (916) 654-4894.

Attachments

ATTACHMENT A

Overview of Energy Commission Staff's Data Adequacy Determination Marsh Marsh Landing Generating Station 08-AFC-3

Technical Area	Attachment Page No.	Adequate ?
AIR QUALITY	3	YES
BIOLOGICAL RESOURCES	9	YES
CULTURAL RESOURCES	19	YES
PALEONTOLOGICAL RESOURCES	26	YES
TRAFFIC AND TRANSPORTATION	29	YES
TRANSMISSION SYSTEM ENGINEERING	33	YES

Adequate X Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date September 18, 2008

Technical Area: **Air Quality** Project: Marsh Landing Generating Station Technical Staff: Brewster Birdsall

Project Manager: Mike Monasmith Docket: 08-AFC-3 Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 2.2 to 2.4 Section 7.1.1 Table 7.1-27 Table 7.1-28 Section 7.1.4	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.	Letter of completeness from Bay Area Air Quality Management District (BAAQMD) dated June 30, 2008.	~~No~~ Yes	~~Letter of completeness from Bay Area Air Quality Management District. As of June 19, 2008, no application had been filed with BAAQMD. Under BAAQMD Regulation 2, Rule 3 (2-3-402), the determination of completeness occurs within 20 days of the filing date.~~
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.	Table 5-1 Tables 7.1-11 to 14	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 2.5.9 pp. 2-17 to 18 Section 7.1.5 pp. 7.1-22 to 23 Tables 7.1-32 and 33 pp. 7.1-66 to 68	Yes	
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Section 2.5.6.3 pp. 2-12 to 2-13 Not applicable.	Yes	

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Appendix B (g) (8) (E)	The emission rates of criteria pollutants and greenhouse gases (CO2, CH4, N2O, and SF6) from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.	Section 7.1.2.2 pp. 7.1-8 to 11 Tables 7.1-11 to 14 Table 7.1-17, p. 7.1-51 Table 7.1-20, p. 7.1-53 Tables 7.1-23 to 26 pp. 7.1-57 to 60	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 7.1.2.2 pp. 7.1-8 to 9 Tables 7.1-11 to 12 Tables 7.1-15 to 16 pp. 7.1-48 to 50	Yes	
Appendix B (g) (8) (F)(ii)	A description of the project's planned initial commissioning phase, which is the phase between the first firing of emissions sources and the commercial operations date, including the types and durations of equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests.	Section 7.1.2.2 pp. 7.1-10 to 11 Tables 7.1-18 and 19 pp. 7.1-52 to 53	Yes	
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Section 7.1.1.2 Tables 7.1-2 to 7.1-8 pp. 7.1-36 to 42	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 7.1.2.3, p. 7.1-13 Appendix J2 On DVD Letter of completeness from BAAQMD dated June 30, 2008.	~~No~~ Yes	~~Letter or statement from BAAQMD indicating approval of onsite meteorological data~~
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 7.1.2.3, p. 7.1-13 Appendix J2 On DVD Letter of completeness from BAAQMD dated June 30, 2008.	~~No~~ Yes	~~Letter or statement from BAAQMD indicating meteorological data compliance with U.S. EPA guidance.~~
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Section 7.1.2.3 pp. 7.1-13 to 14 Figure 7.1-2 Appendix J4 (Attachment I-1)	~~No~~ Yes	~~Quarterly wind tables and wind roses for onsite meteorological data.~~
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:	See below		

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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 (PM2.5)] from construction-related equipment;	Section 7.1.2.1, p. 7.1-7 Table 7.1-9, p. 7.1-43 Section 7.1.2.4, p. 7.1-18 Table 7.1-27, p. 7.1-62 Appendix J3 On DVD	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 7.1.2.2, p. 7.1-9 Section 7.1.2.3 Tables 7.1-21 to 26 pp. 7.1-54 to 60 Section 7.1.2.4, p. 7.1-18 Table 7.1-28, p. 7.1-63 Appendix J3 On DVD	Yes	
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard; and	Section 7.1.3, p. 7.1-21 Appendix J1, Section 4.3.4	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 7.1.2.4, p. 7.1-19 Table 7.1-29 p. 7.1-64	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		
Appendix B (g) (8) (J) (i)	The quantity of offsets or emission reductions that are needed to satisfy air permitting requirements of local permitting agencies (such as the air district), state and federal oversight air agencies, and the California Energy Commission. Identify by criteria air pollutant, and if appropriate, greenhouse gas; and	Section 7.1.4 Table 7.1-31	Yes	
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions;	Section 7.1.4 Table 7.1-30	Yes	
Appendix B (g) (8) (K)	A detailed description of the mitigation, if any, which an applicant may propose, for all projects impacts from criteria pollutants that currently exceed state or federal ambient air quality standards, but are not subject to offset requirements under the district's new source review rule.	Section 7.1.4	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 7.1.6 pp. 7.1-23 to 32 Table 7.1-38 pp. 7.1-72 to 74	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 7.1.6 Table 7.1-38 pp. 7.1-72 to 74	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 7.1.7 Table 7.1-39, p. 7.1-75	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 7.1.8 Table 7.1-40, p. 7.1-75	Yes	

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Project Manager: Mike Monasmith Docket: 08-AFC-03 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.	Existing site conditions: Section 7.2.1.2 pgs 7.2-2 to 7.2-5 Section 7.2.1.3 pgs 7.2-5 to 7.2-6	Yes	
		Direct, indirect, and cumulative impacts: Section 7.2.1.3 pgs 7.2-5 to 7.2-6 Section 7.2.2.1 pgs 7.2-12 to 7.2-14 Section 7.2.2.2 pgs 7.2-14 to 7.2-16 Section 7.2.2.3 pg 7.2-16 Section 7.2.2.4 pg 7.2-16 Section 7.2.2.5 pgs 7.2-16 to 7.2-17 Section 7.2.3 pg 7.2-17	Yes	
		Mitigation measures: Section 7.2.2.1 pgs 7.2-12 to 7.2-14 Section 7.2.4 pgs 7.2-17 to 7.2-19	Yes	
		Monitoring plans: Section 7.2.4 pgs 7.2-17 to 7.2-19	Yes	

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Appendix B (g) (13) (A)	A regional overview and discussion of terrestrial and aquatic biological resources, with particular attention to sensitive biological resources within ten (10) miles of the project. Include a map at a scale of 1:100,000 (or other suitable scale) showing sensitive biological resource location(s) in relation to the project site and related facilities and any boundaries of a local Habitat Conservation Plan or similar open space land use plan or designation. Sensitive biological resources include the following:	Regional overview: Section 7.2.1.1 pgs 7.2-1 to 7.2-2 Section 7.2.1.2 pgs 7.2-2 to 7.2-5 Section 7.2.1.3 pgs 7.2-5 to 7.2-6 Regional vicinity maps: Figure 7.2-1 Figure 7.2-2 Figure 7.2-3	Yes Yes	
Appendix B (g) (13) (A) (i)	species listed under state or federal Endangered Species Acts;	Federal and state Endangered Species: Appendices K1, K2, and K3 Table 7.2-1 pgs 7.2-26 to7.2-44 Section 7.2.1.5 pgs 7.2-6 to 7.2-11	Yes	
Appendix B (g) (13) (A) (ii)	resources defined in sections 1702(q) and (v) of Title 20 of the California Code of Regulations;	Areas of critical concern and species of special concern: Table 7.2-1 pgs 7.2-26 to7.2-44 Section 7.2.1.3 pgs 7.2-5 to 7.25-6 Section 7.2.1.4 pg 7.2-6 Section 7.2.1.5 pgs 7.2-6 to 7.2-11	Yes	
Appendix B (g) (13) (A) (iii)	species identified as state Fully Protected;	State Fully Protected species: Table 7.2-1 pgs 7.2-26 to7.2-44 Section 7.2.1.5 pgs 7.2-6 to 7.2-11	Yes	
Appendix B (g) (13) (A) (iv)	species covered by Migratory Bird Treaty Act;	Migratory Bird Act species: Table 7.2-1 pgs 7.2-26 to7.2-44 Section 7.2.1.5 pgs 7.2-8 to 7.2-11	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	Species and habitats identified in the California Natural Diversity Database: Table 7.2-1 pgs 7.2-26 to7.2-44 Section 7.2.1.4 pg 7.2-6 Section 7.2.1.5 pgs 7.2-6 to 7.2-11	Yes	
Appendix B (g) (13) (A) (vi)	fish and wildlife species that have commercial and/or recreational value.	Fish and wildlife of commercial or recreational value: Not applicable	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: Section 7.2.1.2 pgs 7.2-4 to 7.2-5 Table 7.2-2 pgs 7.2-45 to 7.2-46 Table 7.2-3 pgs 7.2-47 to 7.2-48	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;	Map of proposed project site: Figure 2.1-1 Figure 2.2-1 Map of biological resources: Figure 7.2-1 Figure 7.2-2 Figure 7.2-3 Map of survey area: <u>Figure 7.2-2 Text revised on page 7.2-1, Section 7.2 to clarify areas surveyed that are shown on Figures 2.1-1 and 7.2-2.</u>	Yes Yes ~~No~~ <u>Yes</u>	~~A map of the areas surveyed for biological resources for this project is needed.~~

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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	Depiction of the thermal plume: Not applicable Location of intake and discharge structures: Not Applicable	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 (USACE) 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.	Potential jurisdictional or non-jurisdictional wetlands map: Not applicable Coastal zone wetlands map: Not applicable	N/A N/A	
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 project site: Section 7.2.1.2 pgs 7.2-2 to 7.2-5 Discussion of biological resources at related facilities: Section 7.2.1.2 pgs 7.2-2 to 7.2-5	Yes Yes	
Appendix B (g) (13) (C) (i)	A list of all the species actually observed;	List of species observed: Table 7.2-2 pgs 7.2-45 to 7.2-46 Table 7.2-3 pgs 7.2-47 to 7.2-48 Section 7.2.1.2 pgs 7.2-2 to 7.2-5	Yes	

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Appendix B (g) (13) (C) (ii)	A list of sensitive species and habitats with a potential to occur (as defined in (A) above); and	Sensitive species and habitats with potential to occur: Table 7.2-1 pgs 7.2-26 to7.2-44	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.	Intake structure characteristics: Not applicable Thermal plume description: Not applicable Aquatic habitat and biological resources affected: Not applicable Impingement and entrainment analysis: Not applicable	N/A N/A 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:	Description of field studies: Text revised on page 7.2-1, Section 7.2. Copies of CNDDB records and field survey forms: Not Applicable if no protected species found Qualifications of biologists: Names and qualification added to page 7.2-1, Section 7.2.	~~No~~ Yes N/A ~~No~~ Yes	~~A description of the field studies is needed including the dates of surveys, methods or protocols used for surveys, and the areas surveyed.~~ ~~Provide field survey information for proposed water supply and return pipeline.~~ ~~The names and qualifications of the biologists conducting the field surveys are needed.~~
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;	Current biological surveys: Table 7.2-2 pgs 7.2-45 to 7.2-46 Table 7.2-3 pgs 7.2-47 to 7.2-48	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	Aquatic resource studies and surveys: Not applicable Aquatic resource survey data or impingement and entrainment impact study: Not applicable	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.	Impacts to jurisdictional or non-jurisdictional wetlands: Not applicable	N/A	
Appendix B (g) (13) (E)	Impacts discussion of the following:			

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Project Manager: Mike Monasmith Docket: 08-AFC-03 Technical Senior: Rick York

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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;	Project site impacts: Section 7.2.1.3 pgs 7.2-5 to 7.2-6 Section 7.2.2.1 pgs 7.2-12 to 7.2-14 Section 7.2.2.2 pgs 7.2-14 to 7.2-16 Section 7.2.2.3 pg 7.2-16 Section 7.2.2.4 pg 7.2-16 Section 7.2.2.5 pgs 7.2-16 to 7.2-17 Section 7.2.3 pg 7.2-17 Air emission impacts on sensitive species: Section 7.2.3 pg 7.2-17	Yes 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	Intake impacts: Not applicable Thermal plume impacts: Not applicable	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.	Biofouling and chemical concentration controls: Not applicable Discharge temperatures: Not applicable	N/A N/A	
Appendix B (g) (13) (F)	A discussion of all feasible mitigation measures including, but not limited to the following:			

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Technical Area: **Biological Resources** Project: Marsh Landing Generating Station Technical Staff: Laurel Cordonnier

Project Manager: Mike Monasmith Docket: 08-AFC-03 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) (i)	All measures proposed to avoid and/or reduce adverse impacts to biological resources;	Avoidance and minimization: Section 7.2.4 pgs 7.2-17 to 7.2-19	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;	Habitat mitigation: Not applicable if no mitigation is needed Contacts for compensation habitat: Not applicable if no mitigation is needed	N/A N/A	
Appendix B (g) (13) (F) (iii)	Design features to better disperse or eliminate a thermal discharge;	Design features to eliminate thermal discharge: Not applicable	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	Measures to minimize impacts of cooling water intake: Not applicable	N/A	
Appendix B (g) (13) (F) (v)	Educational programs to enhance employee awareness during construction and operation to protect biological resources.	Employee biological resource awareness training: Section 7.2.4 pg 7.2-18	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.	Monitoring compliance effectiveness: Section 7.2.4 pgs 7.2-17 to 7.2-19	Yes	

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Project Manager: Mike Monasmith Docket: 08-AFC-03 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) (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 (USFWS), the National Marine Fisheries Service (NMFS), the U.S. Army Corps of Engineers (USACE), the California Department of Fish and Game (CDFG), and the Regional Water Quality Control Board (RWCB) will be required for the proposed project.	Contact with state and federal agencies regarding permits: Report of Conversation with CDFG and USFWS dated September 10, 2008, Located in App L3.	~~No~~ Yes	~~Applicant needs to state whether or not USFWS, NMFS, USACE, CDFG, and RWCB will require permits for the proposed project. Also, preliminary contact with agencies must be made.~~
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 identifiying applicable biological resouces laws, ordinances, regulations, and standards: Table 7.2-5 pgs 7.2-51 to 53 Section 7.2.5 pgs 7.2-19 to 7.2-23	YES	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Tables identifiying agencies with jurisdiction: Table 7.2-6 pg 7.2-54	YES	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Agency contact information: Table 7.2-6 pg 7.2-54	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.	Permit schedule: Section 7.2.7 pg 7.2-23	Yes	

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Technical Area: **Cultural Resources** Project: Marsh Landing Generating Station Technical Staff: Amanda Blosser

Project Manager: Mike Monasmith Docket: 08-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) (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. pp. 7.4-1–7.4-2 Impacts due to the project: Vol. 1, p. 7.3-13 Mitigation measures for known impacts: N/A Effectiveness if the proposed measures: N/A Any monitoring plans proposed to verify the effectiveness of the mitigation: N/A	Yes Yes N/A 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, pp.7.3-2–7.3-6; Vol. 2, App. L2, pp. 4-14	Yes	

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Technical Area: **Cultural Resources** Project: Marsh Landing Generating Station Technical Staff: Amanda Blosser

Project Manager: Mike Monasmith Docket: 08-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) (B)	The results of a literature search to identify cultural resources within an area not less than a 1-mile radius around the project site and not less that than one-quarter (0.25) mile on each side of the linear facilities. Identify any cultural resources listed pursuant to ordinance by a city or county, or recognized by any local historical or archaeological society or museum. Literature searches to identify the above cultural resources must be completed by, or under the direction of, individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed. 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.	Literature searches: Vol. 2, App. L2, p. 12. Text added to p.7.3.1, Section 7.3.1. The record search was completed for a one-mile radius around the MLGS project site Cultural resources listed under a city and county ordinance: Vol. 2, App. L1, pp. 12-13; Vol. 2, App. L2, pp. 2-3. . Names and qualifications provided in App L4. All DPR523 forms were provided for the record search. Cultural resources recognized by local societies: Vol. 2, App. L2, pp. 2-3. The applicant provided a 1-mile radius literature search and the map. DPR 523s for known resources: Vol. 2, App. L3; CHRIS technical reports were provided in Vol. 2, App L3, Figure 1 Map of lit search area with past surveys and CHRIS #s: Vol. 2, App L3, Figure 1 CHRIS reports: Vol. 2, App. L1, App. B; Vol. 2. App., L3	~~No~~ Yes Yes Yes ~~No~~ Yes ~~No~~ Yes ~~No~~ Yes ~~No~~ Yes	~~Applicant needs to complete a record search for the area within a radius of 1 mile around the project site~~. ~~Applicant needs to add the name(s) and qualifications of person(s) doing the new record search.~~ ~~Applicant needs to submit DPR523 forms, under confidential cover, for any additional sites identified in wider literature search area~~ ~~Applicant needs to a complete a record search for a 1-mile radius and submit the map of the wider literature search area with past surveys and CHRIS #s.~~ ~~Applicant needs to provide copies, under confidential cover, of CHRIS technical reports on any archaeological excavations or architectural surveys within the wider literature search area.~~

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C)	The results of new surveys or surveys less than 5 years old shall be provided if survey records of the area potentially affected by the project are more than five (5) years old. Surveys to identify new cultural resources must be completed by (or under the direction of) individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed. New pedestrian archaeological surveys shall be conducted inclusive of the project site and project linear facility routes, extending to no less than 200' around the project site, substations and staging areas, and to no less than 50' to either side of the right-of-way of project linear facility routes. New historic architecture field surveys in rural areas shall be conducted inclusive of the project site and the project linear facility routes, extending no less than .5 mile out from the proposed plant site and from the routes of all above-ground linear facilities. New historic architecture field surveys in urban and suburban areas shall be conducted inclusive of the project site, extending no less than one parcel's distance from all proposed plant site boundaries. New historic architecture field reconnaissance ("windshield survey") in urban and suburban areas shall be conducted along the routes of all linear facilities to identify, inventory, and characterize structures and districts that appear to be older than 45 years or that are exceptionally significant, whatever their age. 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).	Names/qualifications for archaeological surveyors or directors provided in Appendix L4 Name/Quals for historical architecture surveyors or directors: Vol. 2, App. L2, p 18. Survey coverage, archaeology Vol. 2, App. L1, Figure 2. Survey Coverage: architecture: Vol. 2, App. L2, Figure 2. Tech report for new archaeological survey: Vol.2, App. L1 Tech report for new historical architecture survey: Vol. 2, App. L2	~~No~~ Yes Yes Yes Yes Yes	~~Applicant needs to submit the names and qualifications for the archaeological surveyors or directors.~~

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Project Manager: Mike Monasmith Docket: 08-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) cont.	Information included in the technical report shall also be provided in the Application for Certification, except that confidential information (archaeological sites or areas of religious significance) shall be submitted under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq. At a minimum, the technical report shall include the following:	AFC includes tech report data, unless confidential; Vol.1, sec. 7.3	Yes	
Appendix B (g) (2) (C) (i)	The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);	Tech report includes background summary: Vol. 2, App. L1 Tech report includes lit-search results: Vol. 2, App. L3	Yes	
Appendix B (g) (2) (C) (ii)	The survey procedures and methodology used to identify cultural resources and a discussion of the cultural resources identified by the survey;	Archaeological methodology: Vol. 2, App. L1, pp. 12-14 Historical architectural methodology: Vol. 2. pp. 7.3-9,10	Yes 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: Architecture forms: Vol. 2. App. L2, App. B	N/A Yes	

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Project Manager: Mike Monasmith Docket: 08-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) (iv)	A map at a scale of 1:24,000 U.S. Geological Survey quadrangle depicting the locations of all previously known and newly identified cultural resources compiled through the research required by Appendix B (g)(2)(B) and Appendix B (g)(2)(C) (ii); and	Archaeology map: Vol. 2, App L2, Fig. 1 Architecture map: Vol. 2, App. L2, Fig. 1. The letter from the Northwest Information Center incorrectly identified the record search area within a ½ mile radius when it was actually a 1-mile radius as required by regulation.	~~No~~ Yes	~~Applicant needs to submit a map at scale of 1:24,000 for the larger record search, depicting locations of previous and new resources~~
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.	Archaeology Qualifications: Names and qualifications provided in Appendix L4	~~No~~ Yes Yes	~~Applicant needs to provide the names and qualifications for archaeological surveyors and those responsible for literature searches and preparation of the technical report.~~
Appendix B (g) (2) (D)	Provide a copy of your request to the Native American Heritage Commission (NAHC) for information on Native American sacred sites and lists of Native Americans interested in the project vicinity, and copies of any 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. L1, Part B NAHC response: Vol. 2 App. L1, Part B Letters sent to Native Americans; Vol. 2. App. L1, App. B Native American Consultation: Vol. 1, p. 7.3-8 Summary of oral responses from Native Americans	Yes Yes Yes Yes N/A	
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 for known cultural resources	N/A	

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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) (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 measures for known impacts; Vol. 1, p. 7.3-14; Vol. 2, App. L1, p. 14	Yes	
Appendix B (g) (2) (E) (iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural resources.	Worker education; Vol. 1, p 7.3-14, Vol. 2 App. L1, p 14	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance with each law or standard during both construction and operation of the facility is discussed; and	Tables identifying applicable LORS: Vol. 1, Table 7.3-1 Explicitly referenced pages: Vol. 1, Table 7.3-1 Discussion of applicability of LORS: Vol. 1, Table 7.3-1	Yes Yes Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table identifying agencies: Vol. 1, Table 7.3-1	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, Table 7.3-2, p. 7.3-24	Yes	

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Project Manager: Mike Monasmith Docket: 08-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, pp. 7.3-17–7.3-18	Yes	

Adequacy Issue: Adequate X Inadequate

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Technical Area: **Paleontological Resources** Project: Marsh Landing Generating Station Technical Staff: Patrick Pilling

Project Manager: Mike Monasmith Docket: 08-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 (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 7.16.1 Section 7.16.2 Section 7.16.3 Section 7.16.4 Appendix S	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 paleonotological study area may vary depending on the depositional history of the region.	Section 7.16.1 Section 7.16.2 Appendix S	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 7.16.1.5 Figure 7.16-2 Appendix S Text revised in Section 7.16.1.5, page 7.16-5	~~No~~ Yes	~~Needs discussion of sensitivity of each individual geologic unit, and why the sensitivity was assigned.~~
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 7.16.1.3 Appendix S	Yes	

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Project Manager: Mike Monasmith Docket: 08-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 (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.	Appendix S	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 7.16.4 Appendix S	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 7.16.5 Table 7.16-1 Appendix S	Yes	

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Technical Area: **Paleontological Resources** Project: Marsh Landing Generating Station Technical Staff: Patrick Pilling

Project Manager: Mike Monasmith Docket: 08-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) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 7.16.5 Table 7.16-1 Table 7.16-2 Appendix S	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 7.16.6 Table 7.16-2 Appendix S	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 7.16.7 Appendix S	Yes	

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Technical Area: **Traffic and Transportation** Project: Marsh Landing Generating Station Technical Staff: James Adams

Project Manager: Mike Monasmith Docket: 08-AFC-3 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	PP. 7.10-1 through 10-25 Section 7.10	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 7.10-1	Yes	
Appendix B (g) (5) (B)	If the proposed project including any linear facility is to be located within 20,000 feet of an airport runway that is at least 3,200 feet in actual length, or 5,000 feet of a heliport (or planned or proposed airport runway or an airport runway under construction, that is the subject of a notice or proposal on file with the Federal Aviation Administration), discuss the project's compliance with the applicable sections of the current Federal Aviation Regulation Part 77 – Objects Affecting Navigable Airspace, specifically any potential to obstruct or impede air navigation generated by the project at operation; such as, a thermal plume, a visible water vapor plume, glare, electrical interference, or surface structure height. The discussion should include a map at a scale of 1:24,000 that displays the airport or airstrip runway configuration, the proposed power plant site and related facilities.	Pg. 7.10-4 Section 7.10.1.4	N/A	

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Technical Area: **Traffic and Transportation** Project: Marsh Landing Generating Station Technical Staff: James Adams

Project Manager: Mike Monasmith Docket: 08-AFC-3 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (C)	An identification, on topographic maps at a scale of 1:24,000, and a description of existing and planned roads, rail lines, (including light rail), bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	Figure 7.10-2	Yes	
Appendix B (g) (5) (C) (i)	Road classification and design capacity;	Pg. 7.10-18 Table 7.10-7 LOS thresholds for two land roadways are shown in Table 7.10-4. For multi-lane roadways, maximum service flows rates for various LOS thresholds are provided in Table 7.10-5	~~No~~ Yes	~~Please provide design capacity for local roads.~~
Appendix B (g) (5) © (ii)	Current daily average and peak traffic counts;	Pg. 7.10-1 Sections 7.10.1.1 & 1.2 Figure 7.10-4 Text added to page 1.10-1, Section 7.10.1.1 and page 7.10-2, Section 7.10.1.2	~~No~~ Yes	~~Please provide peak traffic counts for SR-4 and SR-160~~.
Appendix B (g) (5) (C) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	PP. 7.10-17 & 18 Tables 7.10-6 & 7 Pg. 7.10-21, Table 7.10-11 Pg. 7.10-22, Table 7.10-12 Pg. 7.10-23, Table 7.10-14 Pg. 7.10-14, Table 7.10-15	Yes	
Appendix B (g) (5) (C) (iv)	Weight and load limitations;	Text added to page 7.10-1, Section 7.10.1.1 and to page 7.10-2, Section 7.10.1.2	~~No~~ Yes	~~Please provide weight and load limitations.~~

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Technical Area: **Traffic and Transportation** Project: Marsh Landing Generating Station Technical Staff: James Adams

Project Manager: Mike Monasmith Docket: 08-AFC-3 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (C) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Text added to page 7.10-1, Section 7.10.1.1, to page 7.10-2, Section 7.10.1.2 and to Table 7.10-8	~~No~~ Yes	~~Please provide estimated percentage of current traffic flows for passenger vehicles vs. trucks.~~
Appendix B (g) (5) (C) (vi)	An identification of any road features affecting public safety.	Pg. 7.10-5 Section 7.10.1.4	Yes	
Appendix B (g) (5) (D)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified in subsection (g)(5)(C). Also include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(C).	PP. 7.10-7 & 8 Section 7.10.2.2 PP. 7.10-9 & 10 Section 7.10.2.3 Tables 7.10-11, 10-13	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.	PP. 7.10-11 & 12 Section 7.10.2.3	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	Pg. 7.10-25 Table 7.10-16	Yes	

Adequacy Issue: Adequate **X** Inadequate ____ **DATA ADEQUACY WORKSHEET** Revision No. 1 Date September 18, 2008

Technical Area: **Traffic and Transportation** Project: Marsh Landing Generating Station Technical Staff: James Adams

Project Manager: Mike Monasmith Docket: 08-AFC-3 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Pg. 7.10-25 Table 7.10-17	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Pg. 7.10-25 Table 7.10-17	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.	Pg. 7.10-13 Section 7.10.6	Yes	

Adequacy Issue: Adequate **X** Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date September 18, 2008

Technical Area: **Transmission System Engineering** Project: Marsh Landing Generating Station (MLGS) Technical Staff: Laiping Ng

Project Manager: Mike Monasmith Docket: 08-AFC-3 Technical Senior: Mark Hesters

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (2) (A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	Section 1.3 – 1.4 Page 1-2 to1-4 Section 4.0 Page 4-1 to 4-2	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 1.5 Page 1-4 to 1-5 Section 2.5.4 Page 2-8 to 2-10	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 4.0 Page 4-1 to 4-4 Figure 4-1, 4-2 Figure 2.5-7a to 2.5-7c System Impact Study (Preliminary Findings) Dated: September 15, 2008	~~No~~ Yes	~~1. Provide a one-line diagram for the existing PG&E switchyard before the interconnection of the project.~~ ~~2. Provide a one-line diagram for the existing PG&E switchyard after the addition of the project. Show all equipment ratings including bay arrangement of the breakers, disconnect switches, buses, and etc. which are required for the addition of the project.~~ ~~3. Please resubmit Figure 2.5-7a, 2.5-7b and 2.5-7c. Show all equipment ratings including generators, transformers, circuit breakers, disconnect switches, and etc. which required for the project.~~

Adequacy Issue: Adequate **X** Inadequate ____

DATA ADEQUACY WORKSHEET

Revision No. 1 Date September 18, 2008

Technical Area: **Transmission System Engineering** Project: Marsh Landing Generating Station (MLGS) Technical Staff: Laiping Ng

Project Manager: Mike Monasmith Docket: 08-AFC-3 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 4.1 – 4.2 Page 4-1	Yes	

Adequacy Issue: Adequate **X** Inadequate ____ **DATA ADEQUACY WORKSHEET** Revision No. 1 Date September 18, 2008

Technical Area: **Transmission System Engineering** Project: Marsh Landing Generating Station (MLGS) Technical Staff: Laiping Ng

Project Manager: Mike Monasmith Docket: 08-AFC-3 Technical Senior: Mark Hesters

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (E)	A completed System Impact Study or signed System Impact Study Agreement with the California Independent System Operator and proof of payment. When not connecting to the California Independent System Operator controlled grid, provide the executed System Impact Study agreement and proof of payment to the interconnecting utility. If the interconnection and operation of the proposed project will likely impact an transmission system that is not controlled by the interconnecting utility (or California Independent System Operator), provide evidence of a System Impact Study or agreement and proof of payment (when applicable) with/to the impacted transmission owner or provide evidence that there are no system impacts requiring mitigation.	Section 4.5 System Impact Study (Preliminary Findings) Dated: September 15, 2008	~~No~~ Yes	~~Provide System Impact Study. The Study should analyze the system impact with and without the project during peak and off-peak system conditions, which will demonstrate conformance or non-conformance with the utility reliability and planning criteria with the following provisions:~~ ~~a. Identify major assumptions in the base cases including imports to the system, major generation and load changes in the system and queue generation.~~ ~~b. Analyze system for N-0, important N-1 and critical N-2 contingency conditions and provide a list of criteria violations in a table showing the loadings before and after adding the new generation.~~ ~~c. Short circuit studies (Optional- Data requests will follow).~~ ~~d. Analyze system for Transient Stability and Post-transient voltage conditions under critical N-1 and N-2 contingencies, and provide related plots, switching data and a list for voltage violations in the studies (Optional- Data requests will follow).~~ ~~e. Provide a list of contingencies evaluated for each study.~~ ~~f. List mitigation measures considered (required) and those selected (optional- Data Requests will follow) for all criteria violations.~~ ~~g. Provide electronic copies of *.sav and *.drw PSLF files (optional-Data Requests will follow).~~ ~~h. Provide power flow diagrams (**MW, % loading & P. U. voltage**) for base cases with and without the project. Power flow diagrams must also be provided for all N-0, N-1 and N-2 studies where overloads or voltage violations appear.~~ ~~Or~~ ~~Please provide a signed System Impact Study Agreement with the California Independent System Operator and proof of payment.~~

Adequacy Issue: Adequate **X** Inadequate ____ **DATA ADEQUACY WORKSHEET** Revision No. 1 Date September 18, 2008

Technical Area: **Transmission System Engineering** Project: Marsh Landing Generating Station (MLGS) Technical Staff: Laiping Ng

Project Manager: Mike Monasmith Docket: 08-AFC-3 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) (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 4.8 Page 4-5 to 4-6 Table 2.10-1 Page 2-75 to 2-76	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 2.11-1	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	NA		
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 4.5 Page 4.3 to 4.4	~~No~~ Yes	

DOCKET REQUEST FORM

Name:	Mike Monasmith
Phone #:	654-4894
Project Secretary	Maria
Docket #:	08-AFC-3 (Marsh Landing Generating Station)
Transaction #:	
Document Date:	September 18, 2008
Document Title:	Marsh Landing Generating Station Revised Data Adequacy
Docket Date:	18-Sep-08

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