

Memorandum

Date: April 27, 2009
Telephone: (916) 654-4996

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

DOCKET	
08-AFC-13	
DATE	<u>April 27 2009</u>
RECD.	<u>May 01 2009</u>

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

Subject: SES SOLAR ONE PROJECT, REVISED DATA ADEQUACY RECOMMENDATION (08-AFC-13)

On December 1, 2008, Stirling Energy Systems Solar Three, LLC and Stirling Energy Systems Solar Six, LLC, (SES Solar, LLC) submitted an Application for Certification (AFC) to the California Energy Commission to develop the Stirling Energy Systems (SES) Solar One Project on public land managed by the Bureau of Land Management (BLM) in San Bernardino County, California. Primary equipment for the renewable energy project would be 34,000 25-kilowatt solar dish Stirling systems (referred to as SunCatchers). The project would include the construction of a new 230-kilovolt (kV) substation approximately in the center of the project site. This new substation would be connected to the existing Southern California Edison (SCE) Pisgah Substation adjacent to the project site via approximately 2-miles (0.14-mile off-site) of single-circuit, 220kV transmission line. Other than this interconnection transmission line that would be constructed by SES Solar, LLC, the proposed project would require SCE to expand and upgrade the existing 220kV SCE Pisgah Substation to support the increase in voltage to 500kV, loop the Eldorado-Lugo 500kV line into the SCE Pisgah Substation and demolish 65 miles of the existing Lugo-Pisgah No. 2 220kV transmission line and replace it with 500kV towers and conductor. In addition, modifications within the SCE Eldorado and Lugo substations would be required.

Staff's December 31, 2008 initial data adequacy review of the SES Solar One Project AFC determined that it did not meet all the requirements listed in Title 20, section 1704, and Division 2, Chapter 5, Appendix B of the California Code of Regulations for the 12-month process. Specifically, the AFC was deficient in 15 of 23 areas: Air Quality, Alternatives, Biological Resources, Cultural Resources, Land Use, Noise, Project Overview, Socioeconomics, Soils, Traffic and Transportation, Transmission Line Safety and Nuisance, Transmission System Design, Visual Resources, Waste Management, and Water Resources. The applicant formally filed one hundred and twenty-five copies of the AFC Supplement on April 6, 2009. Attached is a summary table and revised data adequacy worksheets for the fifteen technical disciplines previously determined to be data inadequate, reflecting staff's determination that the supplemental information submitted by the applicant satisfies the data deficiencies specified by the California Energy Commission at the January 14, 2009 Business Meeting.

At the Energy Commission Business Meeting on May 6, 2009, I will recommend that the Energy Commission accept the SES Solar One Project AFC with the supplemental information as complete, and request that a Committee be appointed. If you have any questions, please call Christopher Meyer, staff's Project Manager, at (916) 653-1639.

Attachment

**Attachment A
 Overview of Energy Commission Staff's
 Revised Data Adequacy Determination
 SES Solar One Project
 08-AFC-13**

Technical Area	Attachment B Page No.	Adequate ?
AIR QUALITY.....	1	YES
ALTERNATIVES	8	YES
BIOLOGICAL RESOURCES	9	YES
CULTURAL RESOURCES	23	YES
LAND USE	33	YES
NOISE	37	YES
PROJECT OVERVIEW	41	YES
SOCIOECONOMICS.....	45	YES
SOILS.....	50	YES
TRAFFIC AND TRANSPORTATION	52	YES
TRANS LINE SAFETY & NUISANCE.....	56	YES
TRANSMISSION SYSTEM DESIGN.....	58	YES
VISUAL RESOURCES.....	63	YES
WASTE MANAGEMENT.....	68	YES
WATER RESOURCES.....	72	YES

ATTACHMENT B

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

**SES Solar One Project
08-AFC-13**

April 27, 2009

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Air Quality

Project: SES Solar One Project

Technical Staff: Will Walters

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 5.2 <u>AFC Supplement p. AQ-1 to AQ-3</u>	<u>Yes</u> No	Provide a discussion of the mitigation measures that will be proposed to mitigate the potentially adverse operations maintenance emissions of NOx, VOC, PM10 and PM2.5.
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	Section 5.2 Appendix V-2 <u>MDAQMD letters dated 01/06/09 and 03/03/09</u>	<u>Yes</u> No	Please provide the permit application completeness letter from the Mojave Air Quality Management District. This letter is expected in early January.
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 3.11.1, p. 3-77	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 5.2.4 p. 5.2-36 to -38 <u>AFC Supplement p. AQ-1 to AQ-3</u>	<u>Yes</u> No	Provide a discussion of the mitigation measures that will be proposed to limit the operations maintenance criteria pollutant emissions of NOx, VOC, PM10 and PM2.5.
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.	NA	NA	

Adequacy Issue: Adequate Inadequate DATA ADEQUACY WORKSHEET
 Technical Area: Air Quality Project: SES Solar One Project
 Project Manager: Christopher Meyer Docket: 08-AFC-13

Revision No. 1 Date April 20, 2009
 Technical Staff: Will Walters
 Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (E)	The emission rates of criteria pollutants and greenhouse gases (CO ₂ , CH ₄ , N ₂ O, and SF ₆) from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.	Section 5.2.2.2 p. 5.2-23 to -25 Section 5.2.2.3 p. p. 5.2-25 to 5.2-28 Tables 5.2-11 to -17 Appendix V-2	Yes	
Appendix B (g) (8) (F)(i)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Section 5.2.2.2 p. 5.2-22 to -25 Appendix V-3	Yes	
Appendix B (g) (8) (F)(ii)	A description of the project's planned initial commissioning phase, which is the phase between the first firing of emissions sources and the commercial operations date, including the types and durations of equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests.	NA	NA	
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Section 5.2.1.2 p. 5.2-5 to -16	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Air Quality

Project: SES Solar One Project

Technical Staff: Will Walters

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.	Section 5.2.2.4 p. 5.2-28 to -32 Modeling Files DVD	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.	NA	NA	
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 5.2.2.4 p. 5.2-29 to -31 Appendix V-1 Modeling Files DVD	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:			

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Air Quality

Project: SES Solar One Project

Technical Staff: Will Walters

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (I) (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 (PM10) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NOx), sulfur dioxide (SO ₂), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM10) and particulate matter less than 2.5 microns in diameter (PM2.5)] from construction-related equipment;	Section 5.2.2.5 p. 5.2-32, 33 Modeling Files 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 (NOx, SO ₂ , CO, PM10 and PM2.5) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions;	Section 5.2.2.5 p. 5.2-33 to -35 Modeling Files DVD <u>AFC Supplement p. AQ-6 and DA Supplement Modeling Protocol</u>	<u>Yes</u> No	Provide an air quality modeling analysis that includes the operations maintenance criteria pollutant emission sources.

Adequacy Issue: Adequate Inadequate
 Technical Area: Air Quality
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET
 Project: SES Solar One Project
 Docket: 08-AFC-13

Revision No. 1 Date April 20, 2009
 Technical Staff: Will Walters
 Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard; and	Section 5.2.3 p. 5.2-35, 36	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, PM10, and PM2.5.	NA	NA	
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:	NA	NA	
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	NA	NA	
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions;	NA	NA	

Adequacy Issue: Adequate Inadequate
 Technical Area: Air Quality
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Project: SES Solar One Project
 Docket: 08-AFC-13

Revision No. 1 Date April 20, 2009

Technical Staff: Will Walters
 Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (K)	A detailed description of the mitigation, if any, which an applicant may propose, for all projects impacts from criteria pollutants that currently exceed state or federal ambient air quality standards, but are not subject to offset requirements under the district's new source review rule.	Section 5.2-4 p. 5.2-36 to -38 <u>AFC Supplement p. AQ-1 to AQ-3</u>	<u>Yes</u> No	Provide a detailed discussion of the mitigation measures that will be proposed to mitigate the operations maintenance emissions of emissions that currently exceed ambient air quality standards (NOx and VOC as ozone precursors, PM10, and PM2.5), but are not subject to offset requirements under the district's new source review rule.
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 5.2-24 p. 5.2-49 to -51	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 5.2-26 p. 5.2-52	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 5.2-25 p. 5.2-51	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Air Quality

Project: SES Solar One Project

Technical Staff: Will Walters

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.2.5.5 p. 5.2-51, 52 Table 5.2-26 p. 5.2-52	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Alternatives

Project: SES Solar One Project

Technical Staff: Suzanne Phinney

Project Manager: Christopher Meyer

Docket: 08-AFC-13

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) (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.	4-2 and 4-3 (Section 4.0) Site Criteria 4-6 (Section 4.2.2) Alternative Engineering Alternative 4-8 – 4-9 (Section 4.3) Alternative Sites 4-14 and 4-15 (Section 4.7 and 4.8) Alternative Technologies	Yes	
Appendix B (f) (1)	A discussion of the range of reasonable alternatives to the project, or to the location of the project, including the no project alternative, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and an evaluation of the comparative merits of the alternatives. In accordance with Public Resources Code section 25540.6(b), a discussion of the applicant's site selection criteria, any alternative sites considered for the project, and the reasons why the applicant chose the proposed site.	4-3 and 4.4 (Section 4.2.2.2) No Action Alternative 4-6 (Section 4.3.1) Alternative Sites-Screening Criteria 4-6, 4-7, 4-8 (Section 4.3) Five Alt Site Locations 4-11 to 4-13 (Section 4.5) Alternative Linear Routes 4-13 (Section 4.6) Water Supply	Yes	
Appendix B (f) (2)	An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1).	4-6 (Section 4.2.2.1-4.2.2.2) Alternative Engineering Alternatives 4-25 (Section 4.3.2.1 – 4.3.2.3) Alternative Site Locations 4-30 (Section 4.5) Alternative Linear Routes 4-30 (Section 4.6) Water Supply <u>AFC Supplement , ALT-1, ALT-2, and Table ALT-1</u>	<u>Yes No</u>	Please provide economic merits of the alternative site locations discussed in subsection (f) (1).

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Technical Staff: Joy Nishida
 Technical Senior: Rick York

Project: SES Solar One Project
 Docket: 08-AFC-13

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.	<p>Existing site conditions: Section 5.6.1.2, pages 5.6-5 to 5.6-13; Sections 2.1 of AFC Appendix Y, page 2-1; Sections 3.1 to 3.3 and 3.5 of AFC Appendix Y, pages 3-1 to 3-3; AFC Appendix EE, Section 2.3.1, pages 13-22</p> <p>Direct, indirect, and cumulative impacts: Section 5.6.3, pages 5.6-19 to 5.6-26; Section 5.18.4.5, pages 5.18-17 to 5.18-18; AFC Appendix EE, Section 2.3.2, pages 20-22</p> <p>Mitigation measures: Section 5.6.12, pages 5.6-26 to 5.6-29 Section 5 of Appendix Y, pages 5-1 to 5-3 Section 3.2 of Appendix EE, pages 49-50</p> <p>Monitoring plans: Section 5.6.12, pages 5.6-29; Section 5 of Appendix Y, pages 5-1 to 5-3</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Technical Staff: Joy Nishida
 Technical Senior: Rick York

Project: SES Solar One Project
 Docket: 08-AFC-13

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) (A) (i)	species listed under state or federal Endangered Species Acts;	Federal and state Endangered Species: Table in Appendix B of AFC Appendix Y, pages B-1 to B-7; Tables 2 and 3, Section 2.3.1.2 of AFC Appendix EE, pages 15-19 Section 5.6.1.2, pages 5.6-7 to 5.6-13; Section 3.3 of AFC Appendix Y, pages 3-3 to 3-8; Sections 4.1.1 to 4.1.3 of AFC Appendix Y, pages 4-2 to 4-4; Section 2.3.1.2 of AFC Appendix EE, pages 15 to 19; Section 2.3.2.3 of AFC Appendix EE, pages 21 to 22	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Project: SES Solar One Project Technical Staff: Joy Nishida
 Docket: 08-AFC-13 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) (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 in Appendix B of AFC Appendix Y, pages B-1 to B-7; Table 3 of AFC Appendix EE, pages 17-19 Section 5.6.1.2, pages 5.6-7 to 5.6-13 Section 2.3.1.2 of AFC Appendix EE, pages 15 to 19; Section 2.3.2.3 of AFC Appendix EE, pages 21 to 22	Yes	
Appendix B (g) (13) (A) (iii)	species identified as state Fully Protected;	State Fully Protected species: Page 5.6-11	Yes	
Appendix B (g) (13) (A) (iv)	species covered by Migratory Bird Treaty Act;	Migratory Bird Act species: <u>AFC Supplement: BIO-1, BIO-2</u>	<u>Yes</u> No	Please provide a table listing those bird species which are covered under the Migratory Bird Act.

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Technical Staff: Joy Nishida
 Technical Senior: Rick York

Project: SES Solar One Project
 Docket: 08-AFC-13

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) (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 in Appendix B of AFC Appendix Y Figure 5.6-3; Figure 3 of AFC Appendix Y	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: Appendices D and E of AFC Appendix Y	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Technical Staff: Joy Nishida
 Technical Senior: Rick York

Project: SES Solar One Project
 Docket: 08-AFC-13

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) (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;	<p>Map of proposed project site: Figure 5.6-2 in Section 5.6; Figures 3-1 to 3-6, and 3-9 in Section 3.0; Figure 2 in AFC Appendix Y</p> <p>Map of biological resources: Figures 5.6-2 to 5.6-6 in Section 5.6; Figures 2 to 6 in AFC Appendix Y</p> <p>Map of survey area: Figures 5.6-2, 5.6-4, and 5.6-5 in Section 5.6; Figure 4-6 in AFC Appendix Y</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p>	
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	<p>Depiction of the thermal plume: Not applicable</p> <p>Location of intake and discharge structures: Not applicable</p>	<p>N/A</p> <p>N/A</p>	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Technical Staff: Joy Nishida
 Technical Senior: Rick York

Project: SES Solar One Project
 Docket: 08-AFC-13

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) (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.	Potential jurisdictional or non-jurisdictional wetlands map: SES Solar One USGS Topo Map in AFC Appendix G Coastal zone wetlands map: Not applicable	Yes 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: Sections 5.6.1 to 5.6.9, pages 5.6-2 to 5.6-24 Discussion of biological resources at related facilities: Section 2.3 of AFC Appendix EE, pages 13 to 22	Yes Yes	
Appendix B (g) (13) (C) (i)	A list of all the species actually observed;	List of species observed: Appendices D and E of AFC Appendix Y	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Technical Staff: Joy Nishida
 Technical Senior: Rick York

Project: SES Solar One Project
 Docket: 08-AFC-13

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) (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: Appendix B in AFC Appendix Y; Tables 2 and 3 in AFC Appendix EE	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	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Technical Staff: Joy Nishida
 Technical Senior: Rick York

Project: SES Solar One Project
 Docket: 08-AFC-13

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) (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	<p>Aquatic resource studies and surveys: Not applicable</p> <p>Aquatic resource survey data or impingement and entrainment impact study: Not applicable</p>	<p>N/A</p> <p>N/A</p>	
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.	<p>Impacts to jurisdictional or non-jurisdictional wetlands: Section 5.6.1.3, pages 5.6-14 to 5.6-18; Section 2.2.1 of AFC Appendix Y, pages 2-3 to 2-4; Section 3.6 of AFC Appendix Y, pages 3-9 to 3-11</p>	Yes	
Appendix B (g) (13) (E)	Impacts discussion of the following:			

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Technical Staff: Joy Nishida
 Technical Senior: Rick York

Project: SES Solar One Project
 Docket: 08-AFC-13

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) (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: Sections 5.6.3 to 5.6.11, pages 5.6-19 to 5.6-26; Section 5.18.4.5, pages 5.18-17 Air emission impacts on sensitive species habitat: <u>AFC Supplement: BIO-4</u>	Yes <u>Yes</u> No	Please provide a discussion of air emission impacts to sensitive species habitat during construction, operation, and maintenance.
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:			
Appendix B (g) (13) (F) (i)	All measures proposed to avoid and/or reduce adverse impacts to biological resources;	Avoidance and minimization: Section 5.6.12, pages 5.6-26 to 5.6-29; Section 3.2 of AFC Appendix EE, pages 49-50	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Technical Staff: Joy Nishida
 Technical Senior: Rick York

Project: SES Solar One Project
 Docket: 08-AFC-13

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, the U.S. Army Corps of Engineers, the California Department of Fish and Game (CDFG), and the Regional Water Quality Control Board will be required for the proposed project.	Contact with state and federal agencies regarding permits: <u>AFC Supplement: BIO-5</u>	<u>Yes</u> No	Please contact the USACE regarding jurisdictionality of waters on-site. Also provide contact information of the USACE representative, a description of what was discussed, and when the discussion took place.
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 identifying applicable biological resources laws, ordinances, regulations, and standards: Table 5.6-3, pages 5.6-33 and 5.6-34	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Tables identifying agencies with jurisdiction: Table 5.6-5, page 5.6-35 <u>AFC Supplement: BIO-7, 8 and 9. Revised Tables 5.6-4 and 5.6-5</u>	Yes <u>No</u>	Please add USACE and RWQCB to the Table 5.6-5.

Adequacy Issue: Adequate Inadequate
 Technical Area: Biological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 22, 2009
 Technical Staff: Joy Nishida
 Technical Senior: Rick York

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Agency contact information: Table 5.6-4, page 5.6-34 <u>AFC Supplement: BIO-7, 8 and 9. Revised Tables 5.6-4 and 5.6-5</u>	<u>Yes</u> No	Please add USACE and RWQCB to the Table 5.6-5.
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: Table 5.6-5, page 5.6-35	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Cultural Resources
 Project Manager: Christopher Meyer

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: Mike McGuirt
 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. P. 5.7-3–5.7-4, vol. 1, AFC. Expected project impacts. Pp. 5.7-155–5.7-157, vol. 1, AFC. Proposed mitigation measures. Pp. 5.7-157–5.7-160, vol. 1, AFC. Effectiveness of proposed mitigation measures. Pp. 5.7-168–5.7-180, April 2009 Supplemental Information. Monitoring plans proposed to verify mitigation effectiveness. Pp. 5.7-168–5.7-180, April 2009 Supplemental Information.	Yes Yes Yes <u>Yes No</u> <u>Yes No</u>	The applicant proposes mitigation measures in section 5.7 of the AFC. Please discuss the potential effectiveness of these measures. The applicant proposes monitoring of ground disturbance associated with “the Project” in section 5.7 of the AFC. Please propose a plan or protocol to monitor the effectiveness of the overall mitigation program for cultural resources.
Appendix B (g) (2) (A)	A summary of the ethnology, prehistory, and history of the region with emphasis on the area within no more than a 5-mile radius of the project location.	Summary of the ethnology, prehistory, and history. Pp. 5.7-8–5.7-28, vol. 1, AFC. Pp. CUL-2–CUL-5, April 2009 Supplemental Information.	<u>Yes No</u>	The Prehistoric Context section of the AFC (pp. 5.7-8–5.7-13, vol. 1, AFC) provides the broad prehistory of the region. Please develop a summary of the local archaeology in the vicinity of the project area.
Appendix B (g) (2) (B)	The results of a literature search to identify cultural resources within an area not less than a 1-mile radius around the project site and not less than one-quarter (0.25) mile on each side of the linear facilities. Identify any cultural resources listed pursuant to ordinance by a city or county, or recognized by any local historical or archaeological society or museum. Literature searches to identify the above cultural resources must be completed by, or under the direction of, individuals who meet the Secretary	Literature search results per the regulations. Pp. 5.7-29–5.7-54, vol. 1, AFC. Cultural resources listed under a city or county ordinance. P. 5.7-137, April 2009 Supplemental Information. Cultural resources	Yes <u>Yes No</u> <u>Yes No</u>	Please clarify whether this information was sought, and, if so, what the results were of any such inquiry. Please clarify whether this information was

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Cultural Resources

Project: SES Solar One Project

Technical Staff: Mike McGuirt

Project Manager: Christopher Meyer

Docket: 08-AFC-13

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
<p>Appendix B (g) (2) (B) (Cont.)</p>	<p>of the Interior's Professional Standards for the technical area addressed.</p>	<p>recognized by local heritage society or museum. <u>P. 5.7-137, April 2009 Supplemental Information.</u></p>		<p>sought, and, if so, what the results were of any such inquiry.</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>Interior Secretary's PQS for archaeology. App. A, vol. 1, Confidential Cultural Resources Technical Report.</p>	<p>Yes</p>	<p>Please provide the DPR 523-series forms for the previously recorded cultural resources in the project area.</p>
		<p>Interior Secretary's PQS for history or architectural history. App. A, vol. 1, Confidential Cultural Resources Technical Report.</p>	<p>Yes</p>	
		<p>DPR 523 forms. <u>P. CUL-6, April 2009 Supplemental Information; Appendix H, Volume 4, April 2009 Confidential Cultural Resources Technical Report.</u></p>	<p><u>Yes No</u></p>	
	<p>Map of literature search area with areas of past surveys and CHRIS Nos. Confidential app. A, vol. 4, Confidential Cultural Resources Technical Report.</p>	<p>Yes</p>		
	<p>CHRIS reports. Confidential app. D, vols. 2 and 3, Confidential Cultural Resources Technical</p>	<p>Yes</p>		

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Cultural Resources

Project: SES Solar One Project

Technical Staff: Mike McGuirt

Project Manager: Christopher Meyer

Docket: 08-AFC-13

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
		Report.		
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 districts that appear to be older than 45 years or that are exceptionally significant, whatever their age.</p>	<p>Interior Secretary's PQS for archaeology. P. 5.7-29, vol. 1, AFC and app. A, vol. 1, Confidential Cultural Resources Technical Report.</p> <p>Interior Secretary's PQS for history or architectural history. P. 5.7-29, vol. 1, AFC and app. A, vol. 1, Confidential Cultural Resources Technical Report.</p> <p>Archaeology survey coverage. Pp. 5.7-55-5.7-127, vol. 1, AFC. <u>P. CUL-8, April 2009 Supplemental Information.</u></p>	<p>Yes</p> <p>Yes</p> <p><u>Yes No</u></p>	<p>Applicant refers to the survey of "Project APE." The survey does not appear to include 100 percent of the project site, linear facility routes, ancillary project areas, and appropriate regulatory buffers.</p> <p>Please declare the approximate collective percentage of the above areas that were subject to survey, graphically depict the "areas of steep terrain" (p. 5.7-55, vol. 1, AFC) that were not subject to survey, and calculate the approximate percentage of the above areas that the latter areas represent, provide the rationale for not surveying the Caltrans ROW, and specify those portions of section 36, T. 9 N., R. 5 E. and section 1, T. 8 N., R. 5 E., (SBBM) that are not clearly in phase 1 or 2 of Solar One, but are noted as areas of private land for which the applicant has yet to gain access (figure 6.3-1, app. A, vol. 1, Confidential Cultural Resources Technical Report) as being part of the project site and as being presently unsurveyed. Please clarify whether the areas now shown as "Not a Part" are slated to become a part of the</p>

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Cultural Resources

Project: SES Solar One Project

Technical Staff: Mike McGuirt

Project Manager: Christopher Meyer

Docket: 08-AFC-13

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.)	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>Built-environment survey coverage. Pp. 5.7-129-5.7-136, vol. 1, AFC. . <u>P. CUL-9, April 2009 Supplemental Information.</u></p> <p>Technical report of results of new archaeological surveys. Vol. 1, Confidential Cultural Resources Technical Report. <u>Volume 1, April 2009 Confidential Cultural Resources Technical Report.</u></p> <p>Technical report of results of a built-environment survey. Vol. 1, Confidential Cultural Resources Technical Report. <u>Volume 1, April 2009 Confidential Cultural Resources Technical Report.</u></p>	<p><u>Yes No</u></p> <p><u>Yes No</u></p> <p><u>Yes No</u></p>	<p>project site, and, if so, when the applicant envisions surveying them.</p> <p>Applicant refers to the survey of "Project footprint." Please declare that the above phrase is equivalent to 100 percent of the project site, linear facility routes, ancillary project areas, and appropriate regulatory buffers.</p> <p>Absent the data above on the extent of the archaeological survey coverage, staff cannot assess whether the technical report is substantially adequate for the purpose of complying with the Data Adequacy regulations. The present technical report also does not conform to the ARMR format. Please provide a new draft technical report that will closely adhere to the instruction of subsection VI.A.3 of ARMR, and incorporate the direction of subsection XI.A.2 of ARMR.</p> <p>Absent the data above on the extent of the built-environment survey coverage, staff cannot assess whether the technical report is substantially adequate for the purpose of complying with the Data Adequacy regulations.</p>

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Cultural Resources

Project: SES Solar One Project

Technical Staff: Mike McGuirt

Project Manager: Christopher Meyer

Docket: 08-AFC-13

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 must include non-confidential technical report data. Section 5.7, vol. 1, AFC. Pp. 5.7-i-5.7-203, <u>April 2009 Supplemental Information.</u>	<u>Yes No</u>	Absent the data above on the extents of the archaeological and built environment survey coverages, staff cannot assess whether the Cultural Resources section of the AFC is substantially adequate for the purpose of complying with the Data Adequacy regulations.
Appendix B (g) (2) (C) (i)	The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);	Summary of the ethnology, prehistory, and history. Pp. 3-1-3-21, vol. 1, Confidential Cultural Resources Technical Report. Literature search and results. Pp. 6-6-6-24, vol. 1, Confidential Cultural Resources Technical Report.	Yes Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Cultural Resources

Project: SES Solar One Project

Technical Staff: Mike McGuirt

Project Manager: Christopher Meyer

Docket: 08-AFC-13

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 survey methodology. Pp. 5-1–5-3, vol. 1, Confidential Cultural Resources Technical Report.	Yes	<p>Absent the data above on the extent of the archaeological survey coverage, staff cannot assess whether the <i>Class III Intensive Field Survey Results/Evaluations</i> section of the Confidential Cultural Resources Technical Report is substantially adequate for the purpose of complying with the Data Adequacy regulations.</p> <p>Absent the data above on the extent of the built-environment survey coverage, staff cannot assess whether the <i>Historic Built Environment Field Investigation Results</i> section of the Confidential Cultural Resources Technical Report is substantially adequate for the purpose of complying with the Data Adequacy regulations.</p>
		Built-environment survey methodology. Pp. 5-3–5-4, vol. 1, Confidential Cultural Resources Technical Report.	Yes	
		Discussion of archaeological resources. Pp. 6-25–6-152, vol. 1, Confidential Cultural Resources Technical Report. <u>Volume 1, April 2009 Confidential Cultural Resources Technical Report.</u>	<u>Yes</u> No	
		Discussion of built-environment resources. Pp. 6-162–6-168, vol. 1, Confidential Cultural Resources Technical Report. <u>Volume 1, April 2009 Confidential Cultural Resources Technical Report.</u>	<u>Yes</u> No	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: Cultural Resources

Project: SES Solar One Project

Technical Staff: Mike McGuirt

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C) (v)	The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report.	<p>Personnel and qualifications to conduct archaeological research. App. A, vol. 1, Confidential Cultural Resources Technical Report.</p> <p>Personnel and qualifications to conduct built-environment research. App. A, vol. 1, Confidential Cultural Resources Technical Report.</p>	<p>Yes</p> <p>Yes</p>	
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.	<p>NAHC request. App. B, vol. 1, Confidential Cultural Resources Technical Report.</p> <p>NAHC response(s). App. B, vol. 1, Confidential Cultural Resources Technical Report.</p> <p>Letters sent to Native Americans. App. B, vol. 1, Confidential Cultural Resources Technical Report.</p> <p>Response(s) from Native Americans. P. 5.7-136, vol. 1, AFC.</p> <p>Summary of oral responses from Native Americans. P. 5.7-136, vol. 1, AFC.</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: **Cultural Resources**

Project: SES Solar One Project

Technical Staff: Mike McGuirt

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (E)	Include in the discussion of proposed mitigation measures required by subdivision (g)(1):	Proposed mitigation measures. Pp. 5.7-157–5.7-160, vol. 1, AFC.	Yes	
Appendix B (g) (2) (E) (i)	A discussion of measures proposed to mitigate project impacts to known cultural resources;	Proposed mitigation measures. Pp. 5.7-157–5.7-160, vol. 1, AFC.	Yes	
Appendix B (g) (2) (E) (ii)	A set of contingency measures proposed to mitigate potential impacts to previously unknown cultural resources and any unanticipated impacts to known cultural resources; and	Contingency mitigation measures. Pp. 5.7-157–5.7-160, vol. 1, AFC.	Yes	
Appendix B (g) (2) (E) (iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural resources.	Labor education. Pp. 5.7-157–5.7-160, vol. 1, AFC.	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Tables identifying applicable LORS. Table 5.7-12, vol. 1, AFC. Discussion of LORS applicability and conformance. Table 5.7-12, vol. 1, AFC. Conformance page references. Table 5.7-12, vol. 1, AFC.	Yes Yes Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Jurisdictional agencies. Table 5.7-13, vol. 1, AFC.	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: **Cultural Resources**
 Project Manager: Christopher Meyer

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: Mike McGuirt
 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) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Agency contacts. Table 5.7-13, vol. 1, AFC	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Extra-agency Permits. Table 5.7-14, vol. 1, AFC	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 21, 2009
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

Project: SES Solar One Project
 Docket: 08-AFC-13

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 1-5,6 and 7 Section 1.5 Pages 3-22 Section 3.5.7 Pages 3-25 through 77 Sections 3.5.9 through 3.10.3.7 Pages 5.9-1 through 5.9-18, 5.9-19 through 23, 5.9-26 and 27 Sections 5.9 through 5.9.5, 5.9.5.2, 5.9.6, 5.9.7	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. :	Sections 5.9.1 and 5.9.2	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 5.9-1 through 5.9-5, 5.9-10 through 5.9-12 Sections 5.9 through 5.9.1.5	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any trends in recent zoning changes and potential future land use development;	<u>AFC Supplement: LAND-1</u>	<u>Yes No</u>	<u>Please list recent or proposed zone changes and/or general plan amendments; noticed by an elected or appointed board, commission, or similar entity at the local level.</u>
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	<u>AFC Supplement: LAND-2</u>	<u>Yes No</u>	<u>Please identify 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).</u>

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 21, 2009
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (A) iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Figures 5.9-1, <u>Revised</u> 5.9-2, and 5.9-3	Yes	
Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed facilities with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agency. The discussion shall identify the need, if any, for variances or any measures that would be necessary to make the proposal conform with permitted land uses.	Page 5.9-2 through 5.9-4 Section 5.9 through 5.9.1 Pages 5.9-11-12 Sections 5.9.1.4 and 5.9.1.5 Pages 5.9-17 through 5.9-23 Sections 5.9.4 through 5.9.5.2 Page 5.9-1 through 5.9-3 Section 5.9 Page 5.9-11 Section 5.9.1.4 Pages 5.9-13 through 5.9-26 Sections 5.9.2 through 5.9.5.3	Yes	
Appendix B (g) (3) (C)	A discussion of the legal status of the parcel(s) on which the project is proposed. If the proposed site consists of more than one legal parcel, describe the method and timetable for merging or otherwise combining those parcels so that the proposed project, excluding linears and temporary laydown or staging area, will be located on a single legal parcel. The merger need not occur prior to a decision on the Application but must be completed prior to the start of construction.	Pages 5.9-4 through 5.9-6 Sections 5.9.1.2. and 5.9.1.3	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Land Use
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 21, 2009
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (D)	A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:	Not Applicable (N/A)		No agricultural land per AFC
Appendix B (g) (3) (D) (i)	Crop types, irrigation systems, and any special cultivation practices;	N/A		No agricultural land per AFC
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	N/A		No agricultural land per AFC
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.	<u>AFC Supplement: LAND-3</u>	<u>Yes</u> No	Please provide indirect effects on agricultural land uses.
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, 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 5.9-27 through 5.9-30 Section 5.9.8 Table 5.9-5	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 21, 2009

Technical Area: Land Use

Project: SES Solar One Project

Technical Staff: Bob Fiore

Project Manager: Christopher Meyer

Docket: 08-AFC-13

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.	Page 5.9-34 Section 5.9.8.4	Yes	
Appendix B (i) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Page 5.9-34 Section 5.9.8.4	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Energy Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Page 5.9-34 Section 5.9.8.5	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Noise
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009

Project: SES Solar One Project Technical Staff: Erin Bright
 Docket: 08-AFC-13 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§ 1.3, 3.1.1, 3.9.8, 5.12.1.1, 5.12.1.4, 5.12.2.1, 5.12.2.2, 5.12.3, 5.12.4; Appendix C; Appendix CC	Yes	
Appendix B (g) (4) (A)	A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area potentially impacted by the proposed project is that area where, during either construction or operation, there is a potential increase of 5 dB(A) or more, over existing background levels.	Figure 5.12-1	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Noise
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009

Project: SES Solar One Project

Technical Staff: Erin Bright

Docket: 08-AFC-13

Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for a lesser duration at the applicant's discretion, preferably during the same 25-hour period. The results of the noise level measurements shall be reported as hourly averages in Leq (equivalent sound or noise level), Ldn (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L10, L50, and L90 values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported in units of dB(A).	§ 5.12.1.4, 5.12.2.2; Table 5.12-2, Table 5.12-3, Table 5.12-7; Figure 5.12-1; Appendix CC	Yes	
Appendix B (g) (4) (C)	A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.	§ 5.12.2.2; Table 5.12-6	Yes	
Appendix B (g) (4) (D)	An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project.	§§ 5.12.2.1, 5.12.2.2; Table 5.12-4, Table 5.12-5, Table 5.12-7; Appendix CC	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Noise
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: Erin Bright
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.	§§ 5.12.2.1, 5.12.2.2; Table 5.12-6; Appendix CC	Yes	
Appendix B (g) (4) (F)	The audible noise from existing switchyards and overhead transmission lines that would be affected by the project and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines.	§ 5.12.2.2, 5.12.3	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	§ 5.12.5.3; Table 5.12-8, Table 5.12-9	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.	§5.12.5.4; Table 5.12-10 <u>AFC Supplement: NOISE-1</u>	<u>Yes</u> No	Please identify agencies, such as the appropriate office(s) of the San Bernardino County Government, that would have permit authority were it not for the Energy Commission's exclusive jurisdiction.

Adequacy Issue: Adequate Inadequate
 Technical Area: Noise
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009

Project: SES Solar One Project Technical Staff: Erin Bright
 Docket: 08-AFC-13 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.	§ 5.12.5.4; Table 5.12-10 <u>AFC Supplement: NOISE-2</u>	<u>Yes No</u>	Please identify officials of the San Bernardino County Government who were contacted, and who will serve as a contact person for Energy Commission staff.
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	§ 5.12.5.5; Table 5.12-11	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009
 Technical Staff: Christopher Meyer
 Technical Senior: Eric Knight

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.		N/A	Please see the individual technical areas for a determination regarding the adequacy of this item.
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and		N/A	Please see the individual technical areas for a determination regarding the adequacy of this item.
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference		N/A	Please see the individual technical areas for a determination regarding the adequacy of this item.
Cal. Code Regs., tit. 20, § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	§§5.2 though 5.18, §7.0	Yes	
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply routes and facilities, water supply routes and facilities, pollution control systems, and other general characteristics.	§3.4 Figures 3-1 to 3-3 Figures 3-10B, 3-11, 3-12, 3-14, 3-24 to 3-27, 3-29 to 3-31, 3-35 to .3-37, 3-42 and 3-43	Yes	
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessor's parcel numbers.	§§3.2 and 5.9 Figure 3-3 Figure 5.9-3	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009
 Technical Staff: Christopher Meyer
 Technical Senior: Eric Knight

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	§3.2 Figures 1-1, 1-2, and 3-3	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.	Figures 3-10a, 3-10b, and 3-10c	Yes	
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	§5.9 Appendix C	Yes	
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Table 3-14 <u>AFC Supplement: PO-1</u>	<u>Yes No</u>	Please update Table 3-14 to provide proposed dates of initiation and completion of construction, initial start-up and full-scale operation.
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.	§§ 3.1 <u>AFC Supplement: PO-2</u>	<u>Yes No</u>	Please clarify the ownership of the site and any facilities that will not be owned by SES Solar Three, LLC and SES Solar Six, LLC.
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	<u>AFC Supplement: PO-3</u>	<u>Yes No</u>	Please clarify the ownership and operation of the proposed transmission facilities.
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).	<u>AFC Supplement: PO-4</u>	<u>Yes No</u>	Please provide a description of the legal relationship between the applicant and the owners listed in the response to Appendix B (a) (3) (C).

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009
 Technical Staff: Christopher Meyer
 Technical Senior: Eric Knight

Project: SES Solar One Project
 Docket: 08-AFC-13

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)	In a section entitled, "Generation Facility Description, Design, and Operation" provide the following information:			
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), (or appropriate map scale agreed to by staff) along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Figures 1-1, 1-2, 1-3, 3-1, 3-2, 3-3, and 5.9-3	Yes	
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities to establish the accuracy of the photo simulations required in Sections (a)(1)(D) and (g)(6)(F);	Figures 3-1 to 3-3 and 3-11 to 3-14	Yes	
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	§§3.4, 3.5, 3.7, and 3.8	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.	§4.2.1	Yes	
Appendix B (b) (2)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information:			

Adequacy Issue: Adequate Inadequate
 Technical Area: Project Overview
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009
 Technical Staff: Christopher Meyer
 Technical Senior: Eric Knight

Project: SES Solar One Project
 Docket: 08-AFC-13

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) (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);	Figures 3-5 to 3-8	Yes	
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	Figure 3-10c <u>AFC Supplement: PO-5</u>	<u>Yes No</u>	Please provide a full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction.
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.	§§3.4.5 and 3.6 Appendix EE Appendix H, System Impact Study Appendix I, Electric and Magnetic Field Calculations	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	§3.6 Appendix EE	Yes	
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	§3.12	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: **Socioeconomics**

Project: SES Solar One Project

Technical Staff: Bob Fiore

Project Manager: Christopher Meyer

Docket: 08-AFC-13

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.	Pages 1-5,6 and 7 Section 1.5 Pages 3-22 Section 3.5.7 Pages 3-25 through 77 Sections 3.5.9 through 3.10.3.7 Page 5.10-1, Section 5.10 Pages 5.10-2 through 5.10-15, Sections 5.10.1 through 5.10.1.7 Pages 5.10.2 through 5.10-33, Section 5.10.2 through 5.10.3	Yes	
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:	Pages 5.10-2 through 5.10-33, Section 5.10.1 through 5.10.3	Yes	
Appendix B (g) (7) (A) (i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	Pages 5.10-8 through 5.10-11, Sections 5.10.1.3 through 5.10.1.4	Yes	
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	Pages 5.10-3 through 5.10-8, Sections 5.10.1.1 through 5.10.1.2	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	Pages 5.10-8 through 5.10-10, Section 5.10.1.3	Yes	
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	Pages 5.10-16 through 5.10-23, Section 5.10.2.2	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing and current vacancy rate; and	Pages 5.10-5 through 5.10-8, Section 5.10.1.2	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: **Socioeconomics**
 Project Manager: Christopher Meyer

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: Bob Fiore
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes for the duration of the project schedule.	<u>AFC Supplement: SOCIO-1, 2 and 3</u>	<u>Yes No</u>	Please provide the existing and expected use levels for fire protection, law enforcement, emergency response, for medical facilities and any assessment districts.
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project (note year of estimate, model, if used, and appropriate sources), including:	Pages 5.10-16 through 5.10-32, Sections 5.10.2.2 through 5.10.2.3	Yes	
Appendix B (g) (7) (B) (i)	An estimate of the number of workers to be employed each month by craft during construction, and for operations, an estimate of the number of permanent operations workers during a year;	Pages 5.10-16 through 5.10-23 and Pages 5.10-26 through 5.10-28, Sections 5.10.2.2 and 5.10.2.3	Yes	
Appendix B (g) (7) (B) (ii)	An estimate of the percentage of non-local workers who will relocate to the project area to work on the project;	<u>AFC Supplement: SOCIO-4 and Table 5.10-10</u>	<u>Yes No</u>	Please provide the percentage of non-local workers who will relocate to the project area to work on the project.
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Pages 5.10-23 through 5.10-24 and Page 5.10-29, Sections 5.10.2.2 and 5.10.2.3	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	Pages 5.10-23 through 5.10-24 and Page 5.10-29, Sections 5.10.2.2 and 5.10.2.3	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: **Socioeconomics**
 Project Manager: Christopher Meyer

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: Bob Fiore
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water, and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. Include response times to hospitals and for police, and emergency services. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operating phases;	Pages 5.10-12 through 5.10-15, Section 5.10.1.5 through 5.10.1.7 Pages 5.10-25 through 5.10-32, Sections 5.10.2.2 through 5.10.2.3	Yes	
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	NA		
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and separate estimates of the total operation payroll for permanent and short-term (contract) operations employees;	Pages 5.10-24 through 5.10-25 and Pages 5.10-29 through 5.10-30, Sections 5.10.2.2 through 5.10.2.3	Yes	
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project;	Pages 5.10-24 through 5.10-25 and Pages 5.10-29 through 5.10-30, Sections 5.10.2.2 through 5.10.2.3	Yes	
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost (plant and equipment) of the project;	<u>AFC Supplement: SOCIO-6</u>	<u>Yes</u> No	<u>Please provide an estimate of capital costs.</u>
Appendix B (g) (7) (B) (x)	An estimate of sales taxes generated during construction and separately during an operational year of the project;	Pages 5.10-25 and 5.10-30 through 5.10-31, Sections 5.10.2.2 through 5.10.2.3	Yes	
Appendix B (g) (7) (B) (xi)	An estimate of property taxes generated during an operational year of the project; and	Pages 5.10-30 through 5.10-31, Section 5.10.2.3	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: **Socioeconomics**
 Project Manager: Christopher Meyer

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: Bob Fiore
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (xii)	The expected direct, indirect, and induced income and employment effects due to construction, operation, and maintenance of the project.	Pages 5.10-24 through 5.10-25 and Pages 5.10-29 through 5.10-30, Sections 5.10.2.2 through 5.10.2.3	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	Page 5.10-37, Table 5.10-18 Pages 5.10-36 through 5.10-38, Section 5.10.6	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Pages 5.10-38 through 5.10-39, Table 5.10-19	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.	Pages 5.10-38 through 5.10-39, Table 5.10-19	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Technical Area: **Socioeconomics**
 Project Manager: Christopher Meyer

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: Bob Fiore
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Page 5.10-39, Section 5.10.8	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Soils
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009

Project: SES Solar One Project Technical Staff: Casey Weaver
 Docket: 08-AFC-13 Technical Senior: Paul Marshall

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 5.4.1, 5.4.2, 5.4.3, 5.4.3 & 5.4.4	Yes	
Appendix B (g) (15) (A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:	Sections 5.4.1.3, 5.9.2.2 Figure 5.4-1	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil;	Section 5.4.1.3 Tables 5.4-1 and 5.4-2	Yes	
Appendix B (g) (15) (A) (ii)	An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system;	Section 5.4.1.3	Yes	
Appendix B (g) (15) (A) (iii)	The location of any proposed fill disposal or fill procurement (borrow) sites; and	<u>AFC Supplement: SOILS-1</u>	<u>Yes No</u>	Please discuss the location of any proposed fill disposal or fill procurement (borrow) sites
Appendix B (g) (15) (A) (iv)	The location of any contaminated soils that could be disturbed by project construction.	Appendix T	Yes	
Appendix B (g) (15) (B)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:			
Appendix B (g) (15) (B) (i)	The quantification of accelerated soil loss due to wind and water erosion; and	Section 5.4.2.1 Table 5.4-3	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Soils
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009
 Technical Staff: Casey Weaver
 Technical Senior: Paul Marshall

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (15) (B) (ii)	The effect of power plant emissions on surrounding soil-vegetation systems.	Section 5.4.2.3	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	Table 5.4.2.3	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 5.4-4	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 5.4-4	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 5.4-6 <u>AFC Supplement: SOILS-2</u>	<u>Yes No</u>	Please provide 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

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

Project: SES Solar One Project
 Docket: 08-AFC-13

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 1-5,6 and 7 Section 1.5 Pages 3-22 Section 3.5.7 Pages 3-25 through 77 Sections 3.5.9 through 3.10.3.7 Pages 5.11-11 through 5.11-24 Sections 5.11.2.2 through 5.11.4.3	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.	Figures 5.11-2A and 5.11-2B Pages 5.11-2 through 5.11-5 Sections 5.11.1.1 through 5.11.1.6	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.	Page 5.11-25, Section 5.11.5.1 Pages 5.13-32 through 5.13-33, 5.13.2.2 Pages 5.9-11 through 5.9-12, Section 5.9.1.5	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009
 Project: SES Solar One Project Technical Staff: Bob Fiore
 Docket: 08-AFC-13 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:	Figures 5.11-1, 5.11-2A, 5.11-2B	Yes	
Appendix B (g) (5) (C) (i)	Road classification and design capacity;	Page 5.11-8 Table 5.11-4 Section 5.11.1.8	Yes	
Appendix B (g) (5) (C) (ii)	Current daily average and peak traffic counts;	Page 5.11-8 Table 5.11-4 Section 5.11.1.8	Yes	
Appendix B (g) (5) (C) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Page 5.11-9 Table 5.11-5 Section 5.11.1.8 Pages 5.11-14 through 5.11-17, Tables 5.11-9 through 5.11-11, Section 5.11.2.5	Yes	
Appendix B (g) (5) (C) (iv)	Weight and load limitations;	<u>AFC Supplement: TRAFFIC-1, and Attachments TRAF-1, TRAF-2 and TRAF-3</u>	<u>Yes No</u>	Please provide weight and load limitations for each road identified.
Appendix B (g) (5) (C) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Page 5.11-8 Table 5.11-4 Section 5.11.1.8	Yes	
Appendix B (g) (5) (C) (vi)	An identification of any road features affecting public safety.	Page 5.11-4, Section 5.11.1.2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (D)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified in subsection (g)(5)(C). Also include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(C).	Pages 5.11-13 through 5.11-22, Sections 5.11.2.5 through 5.1.2.6	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.	Pages 5.11-11 through 5.11-12, Section 5.11.2.2 Page 5.11-14, Section 5.11.2.2 Page 5.11-18, Section 5.11.2.2	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	Pages 5.11-29 through 5.11-31, Table 5.11-17, Sections 5.11.5.1 through 5.11.5.3	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Traffic and Transportation
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 20, 2009
 Project: SES Solar One Project Technical Staff: Bob Fiore
 Docket: 08-AFC-13 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.	Pages 5.11-31 through 5.11-32, Table 5.11-18, Section 5.11.5.4	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Pages 5.11-31 through 5.11-32, Table 5.11-18, Section 5.11.5.4	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Page 5.11-32, Table 5.11-19, Section 5.11.5.5	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 9, 2009

Technical Area: **Trans Line Safety & Nuisance**

Project: SES Solar One Project

Technical Staff: Obed Odoemelam

Project Manager: Christopher Meyer

Docket: 08-AFC-13

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 1.0, pp 1-1 through 1-4. Section 3.0, pages 3-27 and 5.28.	Yes	
Appendix B (g) (18) (A)	The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.	Section 3.0, pages 3-29 through 3-32.	Yes	
Appendix B (g) (18) (B)	An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project.	Section 3.0, pages 3-33 and 3-34.	Yes	
Appendix B (g) (18) (C)	Specific measures proposed to mitigate identified impacts, including a description of measures proposed to eliminate or reduce radio and television interference, and all measures taken to reduce electric and magnetic field levels.	Section 3.0, pages 3-28 through 3-34.	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Trans Line Safety & Nuisance
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 9, 2009
 Technical Staff: Obed Odoemelam
 Technical Senior: Matthew Layton

Project: SES Solar One Project
 Docket: 08-AFC-13

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 3.0, pages 3-31 and 3-32.	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 3.0, pages 3-31 and 3-32.	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.	<u>AFC Supplement, TRANS-1</u>	<u>Yes</u> No	Please provide the name, title, phone number, address, and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	<u>AFC Supplement, AFC Supplement, TRANS-2 and 3</u>	<u>Yes</u> No	Please provide 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.

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Sudath Arachchige
 Technical Senior: Mark Hesters

Project: SES Solar One Project
 Docket: 08-AFC-13

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 1.1 pages 1.3 to 1.4 Section 3.6 pages 3.27 to 3.32 Figure 3.1 to 3.3 Solar One - Site plan Figure 3.4 and 3.9 Utility plan Figure 3.5 230kV Transmission line lay out detail Figure 3.6 Solar One and Solar Three Transmission lines Figure 3.7 to 3.8 230kV and 500kV Transmission Line Undercrossing Detail Figure 3.11 to 3-16 Electrical layout plans and one line diagrams for solar module interconnection Figure 3-17 and 3-18 Solar One 18 and 51 MW Feeder layout plans Figure 3.28 Solar One 1.5MW Solar Group component layout plan Figure 3-32 to 3-34 850MW Substation One Line Diagram Figure 3.4-38 H Frame Transmission structures Figure 3.4-39 Single Circuit Transmission structures. Appendix H System Impact Study Appendix P Electrical Engineering Design Criteria	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Sudath Arachchige
 Technical Senior: Mark Hesters

Project: SES Solar One Project
 Docket: 08-AFC-13

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) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.	Section 1.1 pages 1.3 to 1.4 Section 3.6 pages 3.27 to 3.32 Figure 3.11 to 3.16 Figure 3.5 230kV Transmission line lay out detail Figure 3.6 Solar One and Solar Three Transmission lines lay out plans Figure 3.7 to 3.8 500kV and 230kV Transmission line undercrossing detail Figure 3.11 to 3.16 Electrical layout plans and one line diagrams for solar module interconnection Figure 3.32 to 3.34 850MW Substation One Line diagram Figure 3.4-38 H Frame Transmission structures Figure 3.4-39 Single circuit Transmission structures.	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,	Section 1.1 pages 1.3 to 1.4 Section 3.6 pages 3.27 to 3.32 Figure 3.5 230kV Transmission line lay out detail Figure 3.6 Solar One and Solar Three Transmission lines lay out plans	<u>Yes</u> No	Provide detailed pre and post project one line diagrams of the existing SCE Pisgah 230/500kV substation showing all the equipment that would be required to interconnect the project including 230kV and 500kV breakers, disconnect switches (with their respective ratings) and conductor termination points of the substation.

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Sudath Arachchige
 Technical Senior: Mark Hesters

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
	conductors, and insulators.	Figure 3.7 to 3.8 500kV and 230kV Transmission line undercrossing detail Figure 3.11 to 3-16 Electrical layout plans and one line diagrams for solar module interconnection Figure 3-32 to 3-34 850MW Substation One Line Diagram Figure 3.4-38 H Frame Transmission structures Figure 3.4-39 Single circuit transmission structures. Appendix H System Impact Study Appendix P Electrical Engineering Design Criteria <u>AFC Supplement, TRANSYS-1, TS-1, and TS-2</u>		
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.	Section 1.1 pages 1.3 to 1.4 Section 3.6 pages 3.27 to 3.32 Figure 3.6 Solar One and Solar Three Transmission lines lay out plans Figure 3-32 to 3-34 850MW Substation One Line Diagram Figure 3.4-38 H Frame Transmission structures Figure 3.4-39 Single Circuit Transmission structures.	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Sudath Arachchige
 Technical Senior: Mark Hesters

Project: SES Solar One Project
 Docket: 08-AFC-13

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 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>Appendix P Electrical Engineering Design Criteria</p> <p>Table 3.3 LORS for Electrical Clearances (G.O-95 and G.O. 128)</p> <p>Section 3.61 Design, Construction, and Operation of Transmission Facilities.</p>	Yes	
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>Table 3.3 page 3-31 Appendix H System Impact Study</p>	Yes	
Appendix B (i) (1) (B)	<p>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</p>	<p><u>AFC Supplement, TRANS SYS-2</u></p>	<u>Yes No</u>	<p>Please provide table(s) 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</p>

Adequacy Issue: Adequate Inadequate
 Technical Area: Transmission System Design
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Sudath Arachchige
 Technical Senior: Mark Hesters

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
	enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.			permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.
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.	<u>AFC Supplement, TRANS SYS-3</u>	<u>Yes</u> No	Please provide the name, title, phone number, address, and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Appendix H System Impact Study	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009

Technical Area: Visual Resources
 Project Manager: Christopher Meyer

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: James Adams
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	PP. 5.13-1 through 13-43 Figures 5.13-13-20 Section 5.13	Yes	
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the proposed project site and the proposed routes for any project-related linear facilities. Include:	PP. 5.13-4 & 13-5 Section 5.13.1.2	Yes	
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 that depict directions from which the project would be seen, the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(C); and	Figure 5.13-2	Yes	
Appendix B (g) (6) (A) (ii)	Description of the existing visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities, including existing water vapor plumes, above-ground electrical transmission lines, and nighttime lighting levels in the project viewshed.	PP. 5.13-4 through 13-7 Sections 5.13.1.2 & 1.3	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009

Technical Area: Visual Resources
 Project Manager: Christopher Meyer

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: James Adams
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that would be affected by the proposed project. For projects proposed to be located within the coastal zone, the assessment should also describe how the proposed project would be sited to protect views to and along the ocean and scenic coastal areas, would minimize the alteration of natural land forms, would be visually compatible with the character of surrounding areas.	Pg. 5.13-11 Section 5.13.1.5	Yes	
Appendix B (g) (6) (C)	In consultation with Energy Commission staff, identify: i) any designated scenic roadways or scenic corridors and any visually sensitive areas that would be affected by the proposed project, including recreational and residential areas; and ii) the locations of the key observation points to represent the most critical viewing locations from which to conduct detailed analyses of the visual impacts of the proposed project. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. Also identify any major public roadways and trails of local importance that would be visually impacted by the project and indicate the types of travelers (e.g., local residents, recreationists, workers, commuters, etc.) and the approximate number of vehicles, bicyclists, and/or hikers per day.	PP. 5.13-10 & 13-11 Section 5.13.1.4	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009

Technical Area: Visual Resources

Project: SES Solar One Project

Technical Staff: James Adams

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (D)	A table providing the dimensions (height, length, and width, or diameter) and, proposed color(s), materials, finishes, patterns, and other proposed design characteristics of each major component visible from off the project site, including any project-related electrical transmission line and/or offsite aboveground pipelines and metering stations.	Table 5.13-4 Pg. 5.13-22 Section 5.13.2.2 Pg. 5.13-37 Section 5.13-36	Yes	
Appendix B (g) (6) (E)	Provide the cooling tower and heat recovery steam generator (HRSG) exhaust design parameters that affect visible plume formation. For the cooling tower, data shall include heat rejection rate, exhaust temperature, exhaust mass flow rate, liquid to gas mass flow ratio, and, if the tower is plume-abated, moisture content (percent by weight) or plume-abated fogging curve(s). The parameters shall account for a range of ambient conditions (temperature and relative humidity) and proposed operating scenarios, such as duct firing and shutting down individual cells. For the heat recovery steam generator exhausts, data shall include moisture content (percent by weight), exhaust mass flow rate, and exhaust temperature. The parameters must correspond to full-load operating conditions at specified ambient conditions, and shall account for proposed operating scenarios, such as power augmentation (i.e., evaporative coolers, inlet foggers, or steam injection) and duct firing, or proposed HRSG visible plume abatement, such as the use of an economizer bypass. For simple-cycle projects, provide analogous data for the exhaust stack(s).		n/a	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009

Technical Area: Visual Resources
 Project Manager: Christopher Meyer

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: James Adams
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (F)	Provide: i) full-page color photographic reproductions of the existing site, and ii) full-page color simulations of the proposed project at life-size scale when the picture is held 10 inches from the viewer's eyes, including any project-related electrical transmission lines, in the existing setting from each key observation point. If any landscaping is proposed to comply with zoning requirements or to mitigate visual impacts, include the landscaping in simulation(s) representing sensitive area views, depicting the landscaping five years after installation; and estimate the expected time until maturity is reached.	Figures 5.13-2 through 13-5 <u>AFC Supplement: VISUAL-1, Attachment VIS-1</u>	<u>Yes No</u>	The applicant is proposing a conceptual landscaping plan to mitigate visual impacts. Please include the landscaping in simulation(s) representing sensitive area views, depicting the landscaping five years after installation; and estimate the expected time until maturity is reached.
Appendix B (g) (6) (G)	An assessment of the visual impacts of the project, including light, glare, and any modeling of visible plumes. Include a description of the method and identify any computer model used to assess the impacts. Provide an estimate of the expected frequency and dimensions (height, length, and width) of the visible cooling tower and/or exhaust stack plumes. Provide the supporting assumptions, meteorological data, operating parameters, and calculations used.	PP. 5.13-31 & 13-32 Section 5.13.2.2	Yes	
Appendix B (g) (6) (H)	If any landscaping is proposed to reduce the visual impacts of the project, provide a conceptual landscaping plan at a 1:40 scale (1"=40'). Include information on the type of plant species proposed, their size, quantity, and spacing at planting, expected heights at 5 years and maturity, and expected growth rates.	Pg. 5.13-6 Section 5.13.4.1 <u>AFC Supplement: VISUAL-2, Attachment VIS-1</u>	<u>Yes No</u>	The applicant is proposing a conceptual landscaping plan to mitigate visual impacts. Please provide a conceptual landscaping plan at a 1:40 scale (1"=40'). Include information on the type of plant species proposed, their size, quantity, and spacing at planting, expected heights at 5 years and maturity, and expected growth rates.

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009

Technical Area: Visual Resources
 Project Manager: Christopher Meyer

Project: SES Solar One Project
 Docket: 08-AFC-13

Technical Staff: James Adams
 Technical Senior: Paula David

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table 5.13-6 PP. 5.13-38 through 13-41 Section 5.13.5	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 5.13-7 Pg. 5.13-42 Section 5.13.5.5	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 5.13-7 Pg. 5.13-42 Section 5.13.5.4	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 5.13-7 Pg. 5.13-42 Section 5.13.5.5	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Waste Management
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009
 Technical Staff: Ellie Townsend-Hough
 Technical Senior: Paul Marshall

Project: SES Solar One Project
 Docket: 08-AFC-13

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	Section 3.0 Section 5.14.1	Yes	
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	<u>AFC Supplement: WASTE-1 through WASTE-5</u>	<u>Yes No</u>	The AFC provides no discussion of temporary or permanent closure. AFC, Section 5.14.2.3, refers to a facility closure plan that is not included in the document.
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 5.14.- to 5.14-2 Section 5.14.1.1, Page 5.14-14 Section 5.14.3, Page 5.14-14 -5.14-16 Section 5.14.4 Appendix T	Yes	
Appendix B (g) (12) (A)	A Phase I Environmental Site Assessment (ESA) for the proposed power plant site using methods prescribed by the American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process" (Designation: E 1527-93, May 1993), which is incorporated by reference in its entirety; or an equivalent method agreed upon by the applicant and the CEC Staff that provides similar documentation of the potential level and extent of site contamination. The Phase I ESA shall have been completed no earlier than one year prior to the filing of the AFC.	Appendix T	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Waste Management
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009
 Technical Staff: Ellie Townsend-Hough
 Technical Senior: Paul Marshall

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (12) (B)	A description of each waste stream estimated to be generated during project construction and operation, including origin, hazardous or nonhazardous classification pursuant to Title 22, California Code of Regulations, § 66261.20 et seq., chemical composition, estimated annual weight or volume generated, and estimated frequency of generation.	Page 3-43 Table 3-9 Pages 3-43 & 3-44 Table 3-10 Pages 5.14-7 – 5.14-8, Table 5.14-2 Pages 5.14-10 – 5.14-11 Table 5.14-3	Yes	
Appendix B (g) (12) (C)	A description of all waste disposal sites which may feasibly be used for disposal of project wastes. For each site, include the name, location, classification under Title 23, California Code of Regulations, § 2530 et seq., the daily or annual permitted capacity, daily or annual amounts of waste currently being accepted, the estimated closure date and remaining capacity, and a description of any enforcement action taken by local or state agencies due to waste disposal activities at the site.	Pages 5.14-5 - 5.14-6, Table 5.14-1	Yes	
Appendix B (g) (12) (D)	A description of management methods for each waste stream, including methods used to minimize waste generation, length of on- and off-site waste storage, re-use and recycling opportunities, waste treatment methods used, and use of contractors for treatment.	Page 3-43 Table 3-9 Pages 3-43 & 3-44 Table 3-10 Pages 5.14-7 – 5.14-8, Table 5.14-2 Pages 5.14-10 – 5.14-11 Table 5.14-3	Yes	
Appendix B (h) (1) (B)	A discussion of any measures proposed to improve adverse site conditions.	Pages 5.14-14 – 5.14-16 Section 5.14.4	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Waste Management
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009
 Project: SES Solar One Project Technical Staff: Ellie Townsend-Hough
 Docket: 08-AFC-13 Technical Senior: Paul Marshall

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (D) (v)	The waste disposal system and on-site disposal sites;	Page 3-43 Table 3-9 Pages 3-43 & 3-44 Table 3-10 Pages 5.14-7 – 5.14-8, Table 5.14-2 Pages 5.14-10 – 5.14-11 Table 5.14-3	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	Section 5.14.5 Table 5.14-4	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 5.14.5 Table 5.14-4 Section 5.14.5.4 Table 5.14-5	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 5.14.5.4 Table 5.14-5	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 7, 2009

Technical Area: Waste Management

Project: SES Solar One Project

Technical Staff: Ellie Townsend-Hough

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Paul Marshall

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (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 5.14.5.5 Table 5.14-6	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Water Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Casey Weaver
 Technical Senior: Paul Marshall

Project: SES Solar One Project
 Docket: 08-AFC-13

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 3.3, 3.4 and 5.5 <u>AFC Supplement: WATER-1, 2, 3, 10, and 11</u>	<u>Yes No</u>	Please provide a discussion of 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.
Appendix B (g) (14) (A)	All the information required to apply for the following permits, if applicable, including:			
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; National Pollutant Discharge Elimination System Permit; and/or a Section 401 Certification or Waiver from the appropriate Regional Water Quality Control Board (RWQCB);	Sections 5.5.5 and 5.5.5.5 Table 5.5-7	Yes	
Appendix B (g) (14) (A) (ii)	Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;	Sections 5.5.5 and 5.5.5.5 Section 3.8 Table 5.5-5	Yes	
Appendix B (g) (14) (A) (iii)	Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	Sections 5.5.5 and 5.5.5.5 Table 5.5-7	Yes	
Appendix B (g) (14) (A) (iv)	Underground Injection Control Permit(s) from the U.S. Environmental Protection Agency, California Division of Oil and Gas, and RWQCB.		NA	
Appendix B (g) (14) (B)	A detailed description of the hydrologic setting of the project. The information shall include a narrative discussion and on maps at a scale of 1:24,000 (or appropriate scale approved by staff), describing the chemical and physical characteristics of the following nearby water bodies that may be affected by the proposed project:	Section 3.3 p.3-6 Section 5.5.1.1 Section 5.5.1.2	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Water Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Casey Weaver
 Technical Senior: Paul Marshall

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Section 5.5.1.2	Yes	
Appendix B (g) (14) (B) (ii)	Surface water bodies;	Section 5.5.1.3	Yes	
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;	Section 5.5.1.8 Figure 5.5-4	Yes	
Appendix B (g) (14) (B) (iv)	Flood control facilities (existing and proposed); and	Sections 3.1.2, 3.5.9, 3.8.4.4, 5.5.1.7 5.5.3.4 Figure 5.5-4 App. N	Yes	
Appendix B (g) (14) (B) (v)	Groundwater wells within ½ mile if the project will include pumping.	<u>AFC Supplement: WATER-4 and Attachments WR-1 and WR-2</u>	<u>Yes No</u>	Please provide a discussion of groundwater wells within ½ mile of the project
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:			
Appendix B (g) (14) (C) (i)	Source(s) of the primary and back-up water supplies and the rationale for their selection;	Section 5.5.2.2 <u>AFC Supplement: WATER-5</u>	<u>Yes No</u>	Please provide a discussion of back-up water supplies and the rationale for their selection
Appendix B (g) (14) (C) (ii)	The expected physical and chemical characteristics of the source and discharge water(s) including identification of both organic and inorganic constituents before and after any project-related treatment. For source waters with seasonal variation, provide seasonal ranges of the expected physical and chemical characteristics. Provide copies of background material used to create this description (e.g., laboratory analysis);	Section 5.5.2.1 <u>AFC Supplement: WATER-6</u>	<u>Yes No</u>	Please provide a discussion of the expected physical and chemical characteristics of the source and discharge water(s) including identification of both organic and inorganic constituents before and after any project-related treatment and provide copies of background material used to create this description (e.g., laboratory analysis)

Adequacy Issue: Adequate Inadequate
 Technical Area: Water Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Casey Weaver
 Technical Senior: Paul Marshall

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project;	Sections 3.5.10, 3.7, Tables 3-4 & 5.5-2	Yes	
Appendix B (g) (14) (C) (iv)	A detailed description of all facilities to be used in water conveyance (from primary source to the power plant site), water treatment, and wastewater discharge. Include a water mass balance diagram;	Sections 3.5.10 & 5.5.2.2	Yes	
Appendix B (g) (14) (C) (v)	For all water supplies intended for industrial uses to be provided from public or private water purveyors, a letter of intent or will-serve letter indicating that the purveyor is willing to serve the project, has adequate supplies available for the life of the project, and any conditions or restrictions under which water will be provided. In the event that a will-serve letter or letter of intent can not be provided, identify the most likely water purveyor and discuss the necessary assurances from the water purveyor to serve the project;		NA	
Appendix B (g) (14) (C) (vi)	For all water supplied which necessitates transfers and/or exchanges at any point, identify all parties and contracts/agreements involved, the primary source for the transfer and/or exchange water (e.g., surface water, groundwater), and provide the status of all appropriate agencies' approvals for the proposed use, environmental impact analysis on the specific transfers and/or exchanges required to obtain the proposed supplies, a copy of any agency regulations that govern the use of the water, and an explanation of how the project complies with the agency regulation(s);		NA	

Adequacy Issue: Adequate Inadequate
 Technical Area: Water Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Casey Weaver
 Technical Senior: Paul Marshall

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (vii)	Provide water mass balance and heat balance diagrams for both average and maximum flows that include all process and/or ancillary water supplies and wastewater streams. Highlight any water conservation measures on the diagram and the amount that they reduce water demand; and	Section 5.5.2.2	Yes	
Appendix B (g) (14) (C) (viii)	<p>For all projects which have a discharge, provide a copy of the will-serve letter, permit or contract with the public or private entity that will be accepting the wastewater and contact storm water from the project. The letter, permit or contract, if possible, shall identify the discharge volumes and the chemical or physical characteristics under which the wastewater and contact storm water will be accepted.</p> <p>In the event that a will-serve letter, permit, or contract cannot be provided, identify the most likely wastewater/storm water entity and discuss why the applicant was unable to secure the necessary assurances to serve the project's wastewater/storm water needs. Also, discuss the term of the wastewater service to the project, whether the wastewater entity has adequate permit capacity for the volume of wastewater from the project and has adequate permit levels for the chemical/physical characteristics of the project's wastewater and storm water for the life of the project, and any issues or conditions/restrictions the wastewater entity may impose on the project.</p>		NA	
Appendix B (g) (14) (D)	Identify all project elements associated with stormwater drainage, including a description of the following:			

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009

Technical Area: Water Resources

Project: SES Solar One Project

Technical Staff: Casey Weaver

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Paul Marshall

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (D) (i)	Monthly and/or seasonal precipitation and stormwater runoff and drainage patterns for the proposed site and surrounding area that may be affected by the project's construction and operation;	Sections 3.1.2 and 5.5.1.4 Figure 5.5-4	Yes	
Appendix B (g) (14) (D) (ii)	Drainage facilities and the design criteria used for the plant site and ancillary facilities, including but not limited to capacity of designed system, design storm, and estimated runoff;	Sections 3.8.4.4 and 5.5.2.4 Figures 5.4-4 and 5.5-5 Table 5.5-4	Yes	
Appendix B (g) (14) (D) (iii)	All assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post construction; and	Appendix N	Yes	
Appendix B (g) (14) (D) (iv)	A copy of applicable regional and local requirements regulating the drainage systems, and a discussion of how the project's drainage design complies with these requirements.	Section 5.5.5 Table 5.5-5	Yes	
Appendix B (g) (14) (E)	An impacts analysis of the proposed project on water resources and a discussion of conformance with water-related LORS and policy. This discussion shall include:			
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source, including, but not limited to, water availability for other uses during construction or after the power plant begins operation, consistency of the water use with applicable RWQCB basin plans or other applicable resource management plans, and any changes in the physical or chemical conditions of existing water supplies as a result of water use by the power plant;	<u>AFC Supplement: WATER-7</u>	<u>Yes</u> No	Please provide an impacts analysis of the proposed project on water resources and a discussion of the effects of project demand on the water supply and other users of this source, including, but not limited to, water availability for other uses during construction or after the power plant begins operation, consistency of the water use with applicable RWQCB basin plans or other applicable resource management plans

Adequacy Issue: Adequate Inadequate
 Technical Area: Water Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Casey Weaver
 Technical Senior: Paul Marshall

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (E) (ii)	If the project will pump groundwater, an estimation of aquifer drawdown based on a computer modeling study shall be conducted by a professional geologist and include the estimated drawdown on neighboring wells within 0.5 mile of the proposed well(s), any effects on the migration of groundwater contaminants, and the likelihood of any changes in existing physical or chemical conditions of groundwater resources shall be provided;	<u>AFC Supplement: WATER-4 WATER-8, Attachment WR-1, and Data Adequacy Response #53 Correction</u>	<u>Yes</u> No	Please provide an estimation of aquifer drawdown based on a computer modeling study conducted by a professional geologist and include the estimated drawdown on neighboring wells within 0.5 mile of the proposed well(s), any effects on the migration of groundwater contaminants, and the likelihood of any changes in existing physical or chemical conditions of groundwater resources
Appendix B (g) (14) (iii)	The effects of construction activities and plant operation on water quality and to what extent these effects could be mitigated by best management practices;	<u>AFC Supplement: WATER-10 WATER-11</u>	<u>Yes</u> No	Please discuss the effects of construction activities and plant operation on water quality and to what extent these effects could be mitigated by best management practices
Appendix B (g) (14) (iv)	If not using a zero liquid discharge project design for cooling and process waters, include the effects of the proposed wastewater disposal method on receiving waters, the feasibility of using pre-treatment techniques to reduce impacts, and beneficial uses of the receiving waters. Include an explanation why the zero liquid discharge process is "environmentally undesirable," or "economically unsound;"		NA	
Appendix B (g) (14) (v)	If using fresh water, include a discussion of the cumulative impacts, alternative water supply sources and alternative cooling technologies considered as part of the project design. Include an explanation of why alternative water supplies and alternative cooling are "environmentally undesirable," or "economically unsound;"	Sections 4.6, 5.5.2.2, and 5.18.4.4	Yes	

Adequacy Issue: Adequate Inadequate
 Technical Area: Water Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009
 Technical Staff: Casey Weaver
 Technical Senior: Paul Marshall

Project: SES Solar One Project
 Docket: 08-AFC-13

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (vi)	The effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones; and	Section 5.5.2.4 Figure 5.5-4	Yes	
Appendix B (g) (14) (vii)	All assumptions, evidence, references, and calculations used in the analysis to assess these effects.	Appendix N	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 5.5-5 <u>AFC Supplement: WATER-12 and Revised Table 5.5-5</u>	<u>Yes</u> No	Please explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed
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 5.5-5 Table 5.5-7	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 5.5-6	Yes	

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 1 Date April 15, 2009

Technical Area: **Water Resources**

Project: SES Solar One Project

Technical Staff: Casey Weaver

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Paul Marshall

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (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 5.5-7	Yes	