

Memorandum

Date: December 31, 2008

Telephone: (916) 654-4996

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

DOCKET

08-AFC-13

DATE DEC 31 2008

RECD. DEC 31 2008

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

Subject: SES SOLAR ONE PROJECT, 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 Solar One Project (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 will 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 will be required.

Staff has completed its data adequacy review of the AFC and has determined that it does not meet all the requirements listed in Title 20, section 1704, and Division 2, Chapter 5, Appendix B of the California Code of Regulations for the 12-month siting process. Therefore, we recommend that the Energy Commission find the AFC inadequate and adopt the attached list of deficiencies. Of the 23 technical disciplines reviewed, we believe the information contained in the AFC is deficient in fifteen areas which are: 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.

Attached is a summary table and data adequacy worksheets for all technical disciplines. The worksheets for the aforementioned sections identify the additional information that we believe is necessary to fulfill the AFC data adequacy requirements. At the Energy Commission's business meeting on January 14, 2009, I will recommend that the Energy Commission adopt the list of deficiencies and not accept the AFC until the additional information specified in the data adequacy worksheets is supplied. 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
Data Adequacy Determination
SES Solar One Project
08-AFC-13

| Technical Area | Attachment B Page No. | Adequate ? |
|---------------------------------------|--------------------------|---------------|
| AIR QUALITY | 4 | NO |
| ALTERNATIVES | 11 | NO |
| BIOLOGICAL RESOURCES | 12 | NO |
| CULTURAL RESOURCES | 26 | NO |
| EFFICIENCY | 35 | YES |
| FACILITY DESIGN..... | 37 | YES |
| GEOLOGICAL HAZARDS | 40 | YES |
| HAZARDOUS MATERIALS HANDLING | 42 | YES |
| LAND USE | 45 | NO |
| NOISE | 49 | NO |
| PALEONTOLOGICAL RESOURCES | 53 | YES |
| PROJECT OVERVIEW | 56 | NO |
| PUBLIC HEALTH..... | 60 | YES |
| RELIABILITY | 63 | YES |
| SOCIOECONOMICS | 65 | NO |
| SOILS..... | 70 | NO |
| TRAFFIC AND TRANSPORTATION | 72 | NO |
| TRANS LINE SAFETY & NUISANCE..... | 76 | NO |
| TRANSMISSION SYSTEM DESIGN..... | 78 | NO |
| VISUAL RESOURCES..... | 83 | NO |
| WASTE MANAGEMENT | 88 | NO |
| WATER RESOURCES..... | 92 | NO |
| WORKER SAFETY & FIRE PROTECTION | 100 | YES |

ATTACHMENT B

**ENERGY COMMISSION STAFF'S
List of Data Inadequacies**

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

December 31, 2008

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

Revision No. 0 Date December 31, 2008
 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 |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 5.2 | 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 | 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 | 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 | |

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| Appendix B (g) (8) (E) | The emission rates of criteria pollutants and greenhouse gases (CO ₂ , CH ₄ , N ₂ O, and SF ₆) from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources. | Section 5.2.2.2 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 | |

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| Appendix B (g) (8) (H) | One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district. | Section 5.2.2.4 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: | | | |

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| Appendix B (g) (8) (I) (i) | A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (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 | No | Provide an air quality modeling analysis that includes the operations maintenance criteria pollutant emission sources. |

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| Appendix B (g) (8) (I) (iii) | A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard; and | Section 5.2.3 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 | |

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| 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 | 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 | |

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| Appendix B (i) (3) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Section 5.2.5.5 p. 5.2-51, 52 Table 5.2-26 p. 5.2-52 | Yes | |

Adequacy Issue: Adequate _____ Inadequate X
 Technical Area: Alternatives
 Project Manager: Christopher Meyer

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 Technical Senior: Eric Knight

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| Appendix B (b) (1) (D) | A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant. | 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 | No | Please provide economic merits of the alternative site locations discussed in subsection (f) (1). |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | <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> | |

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| Appendix B (g) (13) (A) (i) | species listed under state or federal Endangered Species Acts; | <p>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</p> <p>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</p> | Yes | |

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| 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: | No | Please provide a table listing those bird species which are covered under the Migratory Bird Act. |

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| Appendix B (g) (13) (A) (v) | species and habitats identified by local, state, and federal agencies as needing protection, including but not limited to those identified by the California Natural Diversity Database, or where applicable, in Local Coastal Programs or in relevant decisions of the California Coastal Commission; and | Species and habitats identified in the California Natural Diversity Database: Table 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 | |

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| 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> | |

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Project Manager: Christopher Meyer

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| 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. | <p>Potential jurisdictional or non-jurisdictional wetlands map: SES Solar One USGS Topo Map in AFC Appendix G</p> <p>Coastal zone wetlands map: Not applicable</p> | <p>Yes</p> <p>N/A</p> | |
| 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: | <p>Discussion of biological resources at project site: Sections 5.6.1 to 5.6.9, pages 5.6-2 to 5.6-24</p> <p>Discussion of biological resources at related facilities: Section 2.3 of AFC Appendix EE, pages 13 to 22</p> | <p>Yes</p> <p>Yes</p> | |
| 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 | |

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| Appendix B (g) (13) (C) (ii) | A list of sensitive species and habitats with a potential to occur (as defined in (A) above); and | Sensitive species and habitats with potential to occur: 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 | |

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Project: SES Solar One Project

Technical Staff: Joy Nishida

Project Manager: Christopher Meyer

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Technical Senior: Rick York

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| Appendix B (g) (13) (D) | A description and results of all field studies and seasonal surveys used to provide biological baseline information about the project site and associated facilities. Include copies of the California Natural Diversity Database records and field survey forms completed by the applicant's biologist(s). Identify the date(s) the surveys were completed, methods used to complete the surveys, and the name(s) and qualifications of the biologists conducting the surveys. Include: | Description of field studies: Section 5.6.1.1, pages 5.6-3 to 5.6-4; Section 5.6.1.3, pages 5.6-16 to 5.6-17; Section 2.2 of AFC Appendix Y, pages 2-2 to 2-3 Copies of CNDDDB records and field survey forms: Appendices F and H of AFC Appendix Y Qualifications of biologists: | <p>Yes</p> <p>Yes</p> <p>No</p> | <p>Please provide the resumes of the following biologists: Brooke McDonald, Claudia Solorzano, Kelly Sleeth, Sage Jensen, Rick Bailey, Dave Erikson, Jill Seed, and Marc Baker.</p> |
| Appendix B (g) (13) (D) (i) | Current biological resources surveys conducted using appropriate field survey protocols during the appropriate season(s). State and federal agencies with jurisdiction shall be consulted for field survey protocol guidance prior to surveys if a protocol exists; | Current biological surveys: Section 5.6.1.1, pages 5.6-3 to 5.6-4; Section 2.2 of AFC Appendix Y, pages 2-2 to 2-3 | Yes | |

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| Appendix B (g) (13) (D) (ii) | If cooling water is proposed to be taken directly from or discharged to a surface water feature source, seasonal aquatic resource studies and surveys shall be conducted. Aquatic resource survey data shall include, but is not limited to, fish trawls, ichthyoplankton and benthic sampling, and related temperature and water quality samples. For new projects or repower projects anticipating a change in cooling water flows, sampling protocols shall be provided to the Energy Commission staff for review and concurrence prior to the start of sampling. For repower projects not anticipating a change in cooling water flows, this information shall be provided in the form of the most recent federal Clean Water Act 316(b) impingement and entrainment impact study completed within five (5) years of the AFC filing date; and | <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: | | | |

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| Appendix B (g) (13) (E) (i) | all impacts (direct, indirect, and cumulative) to biological resources from project site preparation, construction activities, plant operation, maintenance, and closure. Discussion shall also address sensitive species habitat impacts from cooling tower drift and air emissions; | Project site impacts: 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: | Yes 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: | | | |

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| 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 | |
| Appendix B (g) (13) (F) (ii) | All off-site habitat mitigation and habitat improvement or compensation, and an identification of contacts for compensation habitat and management; | Habitat mitigation: BIO-1 in Section 5.6.12.1, page 5.6-26 Contacts for compensation habitat: BIO-1 in Section 5.6.12.1, page 5.6-26; Table 5.6-4, page 5.6-34 | Yes Yes | |
| Appendix B (g) (13) (F) (iii) | Design features to better disperse or eliminate a thermal discharge; | Design features to eliminate thermal discharge: Not applicable | N/A | |
| Appendix B (g) (13) (F) (iv) | All measures proposed to avoid or minimize adverse impacts of cooling water intake. This shall include a Best Technology Available (BTA) discussion. If BTA is not being proposed, the rationale for not selecting BTA must be provided; and | Measures to minimize impacts of cooling water intake: Not applicable | N/A | |
| Appendix B (g) (13) (F) (v) | Educational programs to enhance employee awareness during construction and operation to protect biological resources. | Employee biological resource awareness training: BIO-9 in Section 5.6.12.1, page 5.6-29 | Yes | |

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| Appendix B (g) (13) (G) | A discussion of compliance and monitoring programs to ensure the effectiveness of impact avoidance and mitigation measures incorporated into the project. | Monitoring compliance effectiveness: Section 5.6.12, pages 5.6-26 to 5.6-29 | Yes | |
| Appendix B (g) (13) (H) | Submit copies of any preliminary correspondence between the project applicant and state and federal resource agencies regarding whether federal or state permits from other agencies such as the U. S. Fish and Wildlife Service (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: | 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 | |

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| Appendix B (i) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Tables identifying agencies with jurisdiction: Table 5.6-5, page 5.6-35 | No | Please add USACE and RWQCB to the Table 5.6-5. |
| 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 | 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 | |

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Existing site conditions. 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. Monitoring plans proposed to verify mitigation effectiveness. | Yes Yes Yes No No | 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. | No | The <i>Prehistoric Context</i> 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 of the Interior’s Professional Standards for the technical area addressed. | Literature search results per the regulations. Pp. 5.7-29–5.7-54, vol. 1, AFC. | Yes | |

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| Appendix B (g) (2) (B) (Cont.) | 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. | Cultural resources listed under a city or county ordinance. | No | Please clarify whether this information was sought, and, if so, what the results were of any such inquiry. |
| | | Cultural resources recognized by local heritage society or museum. | No | Please clarify whether this information was sought, and, if so, what the results were of any such inquiry. |
| | | Interior Secretary's PQS for archaeology. App. A, vol. 1, Confidential Cultural Resources Technical Report. | Yes | |
| | | Interior Secretary's PQS for history or architectural history. App. A, vol. 1, Confidential Cultural Resources Technical Report. | Yes | |
| | | DPR 523 forms. | No | Please provide the DPR 523 series forms for the previously recorded cultural resources in the project area. |
| | | Map of literature search area with areas of past surveys and CHRIS Nos. Confidential app. A, vol. 4, Confidential Cultural Resources Technical Report. | Yes | |
| CHRIS reports. Confidential app. D, vols. 2 and 3, Confidential Cultural | Yes | | | |

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| | | Resources Technical 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.</p> | <p>Yes</p> <p>Yes</p> <p>No</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.</p> <p>Please clarify whether the areas now shown as "Not a Part" are slated to become a part of the project site, and, if so, when the applicant envisions surveying them.</p> |

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| 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). | Built-environment survey coverage. Pp. 5.7-129–5.7-136, vol. 1, AFC. | No | 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. |
| | | Technical report of results of new archaeological surveys. Vol. 1, Confidential Cultural Resources Technical Report. | No | 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. |
| | | Technical report of results of a built-environment survey. Vol. 1, Confidential Cultural Resources Technical Report. | No | 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. |

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| 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. | No | Absent the data above on the extents of the archaeological and built-environment survey coverages, staff cannot assess whether the <i>Cultural Resources</i> 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 | |

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| Appendix B (g) (2) (C) (ii) | The survey procedures and methodology used to identify cultural resources and a discussion of the cultural resources identified by the survey; | Archaeological survey methodology. Pp. 5-1–5-3, vol. 1, Confidential Cultural Resources Technical Report. | Yes | 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. 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. |
| | | 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. | No | |
| | | Discussion of built-environment resources. Pp. 6-162–6-168, vol. 1, Confidential Cultural Resources Technical Report. | No | |

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| Appendix B (g) (2) (C) (iii) | Copies of all new and updated DPR 523(A) forms. If a cultural resource may be impacted by the project, also include the appropriate DPR 523 detail form for each such resource; | <p>Archaeology forms. Confidential app. B, vol. 4, Confidential Cultural Resources Technical Report.</p> <p>Built-environment forms. Confidential app. D, vol. 5, Confidential Cultural Resources Technical Report.</p> | <p>No</p> <p>No</p> | <p>Absent the data above on the extent of the archaeological survey coverage, staff cannot assess whether Confidential app. B includes the full complement of archaeological sites on the surface of the project area and is, therefore, 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 Confidential app. D includes the full complement of built-environment resources in the project area and is, therefore, substantially adequate for the purpose of complying with the Data Adequacy regulations.</p> |
| Appendix B (g) (2) (C) (iv) | A map at a scale of 1:24,000 U.S. Geological Survey quadrangle depicting the locations of all previously known and newly identified cultural resources compiled through the research required by Appendix B (g)(2)(B) and Appendix B (g)(2)(C) (ii); and | 1:24,000 scale, USGS 7.5' topographic quadrangle map, one map, of all previously recorded and newly found cultural resources. Confidential app. A, vol. 4, Confidential Cultural Resources Technical Report. | Yes | |
| Appendix B (g) (2) (C) (v) | The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report. | <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> | |

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| 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> | |
| 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 | |

Adequacy Issue: Adequate _____ Inadequate X
 Technical Area: Cultural Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Project: SES Solar One Project Technical Staff: Mike McGuirt
 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 |
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| Appendix B (i) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | 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 | |
| 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: Efficiency
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Steve Baker
 Technical Senior: Steve Baker

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 |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | §§ 1.1, 1.3, 2.0, 2.1, 2.2, 2.3, 2.4.1, 3.1, 3.1.1, 3.1.2, 3.2, 3.4.1, 3.4.3, 3.4.4, 3.4.4.1, 3.4.5, 3.4.5.1, 3.9.14, 3.11.1, 4.4, 4.6, 4.8; Appendices B, K | Yes | |
| Appendix B (h) (4) (A) | Heat and mass balance diagrams for design conditions for each mode of operation. | Appendix B, § 4.0 | Yes | |
| Appendix B (h) (4) (B) | Annual fuel consumption in BTUs for each mode of operation, including hot restarts and cold starts. | N/A | N/A | |
| Appendix B (h) (4) (C) | Annual net electrical energy produced in MWh for each mode of operation including starts and shutdowns. | § 3.11.1 | Yes | |
| Appendix B (h) (4) (D) | Number of hours the plant will be operated in each design condition in each year. | §§ 1.3, 3.4.3, 3.9.14, 3.11.1 | Yes | |
| Appendix B (h) (4) (E) | If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards. | N/A | N/A | |
| Appendix B (h) (4) (F) | A discussion of alternative generating technologies available for the project, including the projected efficiency of each, and an explanation why the chosen equipment was selected over these alternatives. | § 4.4 | Yes | |

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

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Project: SES Solar One Project Technical Staff: Steve Baker
 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 |
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| Appendix B (i) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | N/A | N/A | |
| 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 5.18-5 | 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 5.18-5 | Yes | |
| Appendix B (i) (3) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | N/A | N/A | |

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

DATA ADEQUACY WORKSHEET

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

Revision No. 0 Date December 31, 2008
 Technical Staff: Shahab Khoshmashrab
 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 |
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| Appendix B (h) (1) (A) | A description of the site conditions and investigations or studies conducted to determine the site conditions used as the basis for developing design criteria. The descriptions shall include, but not be limited to, seismic and other geologic hazards, adverse conditions that could affect the project's foundation, adverse meteorological and climatic conditions, and flooding hazards, if applicable. | §§ 1.1, 1.3, 3.1, 3.3.2, 3.10.1.4 Appendices E, M, O | Yes | |
| Appendix B (h) (1) (B) | A discussion of any measures proposed to improve adverse site conditions. | §§ 3.3.2, 3.5.9, 3.10, 5.3 Appendix E | Yes | |
| Appendix B (h) (1) (C) | A description of the proposed foundation types, design criteria (including derivation), analytical techniques, assumptions, loading conditions, and loading combinations to be used in the design of facility structures and major mechanical and electrical equipment | §§ 3.4.4.2, 3.5.6, 3.6.1, 3.9.5 Appendices E, F, K, M, O, P, Q, R | Yes | |
| Appendix B (h) (1) (D) | For each of the following facilities and/or systems, provide a description including drawings, dimensions, surface-area requirements, typical operating data, and performance and design criteria for protection from impacts due to adverse site conditions: | | Yes | |
| Appendix B (h) (1) (D) (i) | The power generation system; | §§ 1.3, 3.4.3, 3.4.4 Figures 3-24, 3-25 Tables 3-1, 3-2 | Yes | |
| Appendix B (h) (1) (D) (ii) | The heat dissipation system; | § 3.4.4.2 Appendix B | Yes | |

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

DATA ADEQUACY WORKSHEET

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

Revision No. 0 Date December 31, 2008
 Technical Staff: Shahab Khoshmashrab
 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 |
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| Appendix B (h) (1) (D) (iii) | The cooling water supply system, and, where applicable, pre-plant treatment procedures; | §§ 3.5.10, 3.7 Appendix J | Yes | |
| Appendix B (h) (1) (D) (iv) | The atmospheric emission control system; | §§ 1.5.1, 5.2 | Yes | |
| Appendix B (h) (1) (D) (v) | The waste disposal system and on-site disposal sites; | § 3.8 Tables 3-9, 3-10 | Yes | |
| Appendix B (h) (1) (D) (vi) | The noise emission abatement system; | §§ 3.6.2.4, 5.12 | Yes | |
| Appendix B (h) (1) (D) (vii) | The geothermal resource conveyance and re-injection lines (if applicable); | N/A | N/A | |
| Appendix B (h) (1) (D) (viii) | Switchyards/transformer systems; and | § 3.6 Figures 3-32 through 3-37 | Yes | |
| Appendix B (h) (1) (D) (ix) | Other significant facilities, structures, or system components proposed by the applicant. | Tables 3-1, 3-2 | Yes | |
| Appendix B (i) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | § 3.13 Table 5.3-3 Appendices F, K, L, M, O, P, Q, R | Yes | |

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008

Technical Area: Facility Design

Project: SES Solar One Project

Technical Staff: Shahab Khoshmashrab

Project Manager: Christopher Meyer

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 |
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| Appendix B (i) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Tables 5.3-3, 5.3-4 | 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. | Tables 5.3-4 | 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 5.3-5 | Yes | |

Adequacy Issue: Adequate Inadequate
 Technical Area: **Geological Hazards**
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Dal Hunter, Ph.D., C.E.G.
 Technical Senior: Steve Baker

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 |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Sections 5.3.1, 5.3.2, 5.3.3, and 5.3.4 | Yes | |
| Appendix B (g) (17) (A) | A summary of the geology, seismicity, and geologic resources of the project site and related facilities, including linear facilities. | Sections 5.3.1 and 5.3.2.1 | Yes | |
| Appendix B (g) (17) (B) | A map at a scale of 1:24,000 and description of all recognized stratigraphic units, geologic structures, and geomorphic features within two (2) miles of the project site and along proposed facilities. Include an analysis of the likelihood of ground rupture, seismic shaking, mass wasting and slope stability, liquefaction, subsidence, tsunami runup, and expansion or collapse of soil structures at the plant site. Describe known geologic hazards along or crossing linear facilities. | Section 5.3.2.1; Figures 5.3-2 and 5.3-3* *Note: Scale modified to 1 inch = 1 mile due to size of Project and extent of linears facilities | Yes | |
| Appendix B (g) (17) (C) | A map and description of geologic resources of recreational, commercial, or scientific value which may be affected by the project. Include a discussion of the techniques used to identify and evaluate these resources. | Section 5.3.2.3; Figure 5.3-2 | Yes | |

Adequacy Issue: Adequate Inadequate
 Technical Area: Geological Hazards
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Dal Hunter, Ph.D., C.E.G.
 Technical Senior: Steve Baker

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 |
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| Appendix B (i) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Table 5.3-3 | 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 5.3-3 | Yes | |
| Appendix B (i) (2) | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff. | Table 5.3-4 | 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 5.3-5 | Yes | |

Adequacy Issue: Adequate Inadequate
 Technical Area: Hazardous Materials Handling
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Rick Tyler
 Technical Senior: Rick Tyler

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 |
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| Appendix B (e) (1) | A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations. | Section 5.15.2.4 | Yes | |
| 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 5.15 | Yes | |
| Appendix B (g) (10) (A) | A list of all materials used or stored on-site which are hazardous or acutely hazardous, as defined in Title 22, California Code of Regulations, § 66261.20 et seq., and a discussion of the toxicity of each material. | Tables 5.15-1 | Yes | |
| Appendix B (g) (10) (B) | A map at a scale of 1:24,000 depicting the location of schools, hospitals, day-care facilities, emergency response facilities and long-term health care facilities, within the area potentially affected by any release of hazardous materials. | Figure 5.16-1 | Yes | |
| Appendix B (g) (10) (C) | A discussion of the storage and handling system for each hazardous material used or stored at the site. | Section 5.15 | Yes | |
| Appendix B (g) (10) (D) | The protocol that will be used in modeling potential consequences of accidental releases that could result in off site impacts. Identify the model(s) to be used, a description of all input assumptions, including meteorological conditions. The results of the modeling analysis can be submitted after the AFC is complete. | Section 5.15.2.3 | Yes | |

Adequacy Issue: Adequate Inadequate
 Technical Area: Hazardous Materials Handling
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Rick Tyler
 Technical Senior: Rick Tyler

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

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| Appendix B (g) (10) (E) | A discussion of whether a risk management plan (Health and Safety Code § 25531 et seq.) will be required, and if so, the requirements that will likely be incorporated into the plan. | Section 5.15.2.3 | Yes | |
| Appendix B (g) (10) (F) | A discussion of measures proposed to reduce the risk of any release of hazardous materials. | Section 5.15 | Yes | |
| Appendix B (g) (10) (G) | A discussion of the fire and explosion risks associated with the project. | Section 5.15.2.2 | 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 | Table 5.15-7 | Yes | |
| Appendix B (i) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Table 5.15-9 | Yes | |

Adequacy Issue: Adequate Inadequate

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008

Technical Area: **Hazardous Materials Handling**

Project: SES Solar One Project

Technical Staff: Rick Tyler

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Rick Tyler

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| Appendix B (i) (2) | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff. | Table 5.15-8 | 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 5.15-8 | Yes | |

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

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | 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; | | No | 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. |
| 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 | | No | 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). |

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

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Project: SES Solar One Project Technical Staff: Bob Fiore
 Docket: 08-AFC-13 Technical Senior: Paula David

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| Appendix B (g) (3) (A) iv) | Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated. | Figures 5.9-1, 5.9-2, 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 X
 Technical Area: Land Use
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

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

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| 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. | | 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 X

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008

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 |
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| Appendix B (i) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | 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 X
 Technical Area: Noise
 Project Manager: Christopher Meyer

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Revision No. 0 Date December 31, 2008
 Technical Staff: Erin Bright
 Technical Senior: Steve Baker

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

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | §§ 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 X
 Technical Area: Noise
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
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 Technical Senior: Steve Baker

Project: SES Solar One Project
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| 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 X
 Technical Area: Noise
 Project Manager: Christopher Meyer

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Revision No. 0 Date December 31, 2008
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 Technical Senior: Steve Baker

Project: SES Solar One Project
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| 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 | 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 X

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Revision No. 0 Date December 31, 2008

Technical Area: Noise

Project: SES Solar One Project

Technical Staff: Erin Bright

Project Manager: Christopher Meyer

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 |
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| Appendix B (i) (2) | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff. | § 5.12.5.4; Table 5.12-10 | No | 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: Paleontological Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Dal Hunter, Ph.D., C.E.G.
 Technical Senior: Steve Baker

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

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Appendix AA, Paleontological Resources Technical Report (Confidential) | Yes | |
| Appendix B (g) (16) (A) | Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The size of the paleontological study area may vary depending on the depositional history of the region. | Section 5.8.1.5 | Yes | |
| Appendix B (g) (16) (B) | A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontologic localities or other paleontologic resources within or adjacent to the project. Include a discussion of sensitivity for each geologic unit identified on the most recent geologic map at a scale of 1:24,000. Provide rationale as to why the sensitivity was assigned. | Section 5.8.1.5 | Yes | |
| Appendix B (g) (16) (C) | A summary of all local museums, literature searches and field surveys used to provide information about paleontologic resources in the project area described in subsection (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys. | Sections 5.8.1.5, 5.8.1.3 Appendix AA | Yes | |

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

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Revision No. 0 Date December 31, 2008
 Technical Staff: Dal Hunter, Ph.D., C.E.G.
 Technical Senior: Steve Baker

Project: SES Solar One Project
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| SITING REGULATIONS | INFORMATION | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
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| Appendix B (g) (16) (D) | Information on the specific location of known paleontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, showing occurrences of fossil finds, if known, within a one-mile radius of the project and related facilities shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to Title 20, California Code of Regulations, s 2501 et seq. | Sections 5.8.1.1, 5.8.1.2, and 5.8.1.5 | Yes | |
| Appendix B (g) (16) (E) | A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known paleontologic resources, and a set of contingency measures for mitigation of potential impacts to currently unknown paleontologic resources. | Section 5.8.4.1 | Yes | |
| Appendix B (i) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Section 5.8.1.3 | Yes | |

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

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 Technical Senior: Steve Baker

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| Appendix B (i) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | Section 5.8.5 and Table 5.8-1 | Yes | |
| Appendix B (i) (2) | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff. | Section 5.8.5.4 | 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. | Section 5.8.5.5 | Yes | |

Adequacy Issue: Adequate _____ Inadequate X

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Revision No. 0 Date December 31, 2008

Technical Area: Project Overview

Project: SES Solar One Project

Technical Staff: Christopher Meyer

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Eric Knight

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| Cal. Code Regs., tit. 20, § 1704, (a) (3) (A) | Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document. | | N/A | Please see the individual technical areas for a determination regarding the adequacy of this item. |
| Cal. Code Regs., tit. 20, § 1704, (a) (3) (B) | Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and | | N/A | Please see the individual technical areas for a determination regarding the adequacy of this item. |
| Cal. Code Regs., tit. 20, § 1704, (a) (3) (C) | A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference | | N/A | Please see the individual technical areas for a determination regarding the adequacy of this item. |
| Cal. Code Regs., tit. 20, § 1704, (a) (4) | Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation. | §§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 X
 Technical Area: Project Overview
 Project Manager: Christopher Meyer

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 Technical Staff: Christopher Meyer
 Technical Senior: Eric Knight

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| Appendix B (a) (1) (C) | A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings. | §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 | No | 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 | No | 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. | | No | 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). | | No | 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 X
 Technical Area: Project Overview
 Project Manager: Christopher Meyer

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| 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 X
 Technical Area: Project Overview
 Project Manager: Christopher Meyer

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 Technical Staff: Christopher Meyer
 Technical Senior: Eric Knight

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| 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 | No | 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

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Revision No. 0 Date December 31, 2008

Technical Area: Public Health
 Project Manager: Christopher Meyer

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

Technical Staff: Obed Odoemelam
 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 |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 1.0, page 1-1. Section 5.0, pages 5.16-1 through 5.16-3. Section 5.0 page 5.2-3. | Yes | |
| Appendix B (g) (9) (A) | An assessment of the potential risk to human health from the project's hazardous air emissions using the Air Resources Board Hotspots Analysis and Reporting Program (HARP) (HSC §§44360-44366) or its successor and Approved Risk Assessment Health Values. These values should include the cancer potency values and noncancer reference exposure levels approved by the Office of Environmental Health Hazard Assessment (OEHHA Guidelines, Cal-EPA 2005). | Section 5.0, pages 5.16-3 through 5.16-5. | Yes | |
| Appendix B (g) (9) (B) | A listing of the input data and output results, in both electronic and print formats, used to prepare the HARP health risk assessment. | Section 5.0, pages 5.16-5 through 5.16-8. | Yes | |
| Appendix B (g) (9) (C) | Identification of available health studies through the local public health department concerning the potentially affected population(s) within a six-mile radius of the proposed power plant site related to respiratory illnesses, cancers or related diseases. | Section 5.0, page 5.16-2. | Yes | |
| Appendix B (g) (9) (D) | A map showing sensitive receptors within the area exposed to the substances identified in subsection (g)(9)(A). | Section 5.0, Figure 5.16-1 | Yes | |
| Appendix B (g) (9) (E) | For purposes of this section, the following definitions apply: | | | |

Adequacy Issue: Adequate Inadequate

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Revision No. 0 Date December 31, 2008

Technical Area: Public Health
 Project Manager: Christopher Meyer

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

Technical Staff: Obed Odoemelam
 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 |
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| Appendix B (g) (9) (E) (i) | A sensitive receptor refers to infants and children, the elderly, and the chronically ill, and any other member of the general population who is more susceptible to the effects of the exposure than the population at large; | Section 5.0, pages 5.16-3 through 5.16-7. | Yes | |
| Appendix B (g) (9) (E) (ii) | An acute exposure is one which occurs over a time period of less than or equal to one (1) hour; and | Section 5.0, pages 5.16-3 through 5.16-7. | Yes | |
| Appendix B (g) (9) (E) (iii) | A chronic exposure is one which is greater than twelve (12) percent of a lifetime of seventy (70) years. | Section 5.0, pages 5.16-3 through 5.16-7. | | |
| 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 5.0, page 5.16-9. | 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. | Section 5.0 page 5.16-9. | Yes | |

Adequacy Issue: Adequate Inadequate

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Technical Area: Public Health

Project: SES Solar One Project

Technical Staff: Obed Odoemelam

Project Manager: Christopher Meyer

Docket: 08-AFC-13

Technical Senior: Matthew Layton

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| Appendix B (i) (2) | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff. | Section 5.0, page 5.16-10. | Yes | |
| Appendix B (i) (3) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Section 5.0, page 5.10. | Yes | |

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

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 13, 2008
 Technical Staff: Steve Baker
 Technical Senior: Steve Baker

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

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | §§ 1.1, 1.3, 1.6, 2.0, 2.1, 2.2, 2.3, 2.4.1, 3.1, 3.1.1, 3.1.2, 3.2, 3.4.1, 3.4.3, 3.4.4, 3.4.4.1, 3.4.5, 3.4.5.1, 3.4.5.3, 3.4.5.4, 3.4.5.5, 3.5.10, 3.7, 3.7.1, 3.9.14, 3.10.1, 3.11.1, 3.11.2, 3.11.3, 3.11.4, 4.4, 4.6, 4.8; Tables 3-1, 3-2; Appendices B, K | Yes | |
| Appendix B (h) (3) (A) | A discussion of the sources and availability of the fuel or fuels to be used over the estimated service life of the facilities. | N/A | N/A | |
| Appendix B (h) (3) (B) | A discussion of the anticipated service life and degree of reliability expected to be achieved by the proposed facilities based on a consideration of: | — | — | |
| Appendix B (h) (3) (B) (i) | Expected overall availability factor, and annual and lifetime capacity factors; | §§ 1.3, 3.4.3, 3.9.14, 3.11.1, 3.11.2 | Yes | |
| Appendix B (h) (3) (B) (ii) | The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system; | §§ 3.1, 3.4.4, 3.4.5.3, 3.4.5.4, 3.11.2, 3.11.3, 3.11.4; Table 3-1; Appendices B, K | Yes | |
| Appendix B (h) (3) (B) (iii) | Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability; | § 3.10 | Yes | |
| Appendix B (h) (3) (B) (iv) | Special design features adopted by the applicant or resource supplier to ensure power plant reliability including equipment redundancy; and | §§ 3.1, 3.4.1, 3.4.3 | Yes | |

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

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 13, 2008
 Technical Staff: Steve Baker
 Technical Senior: Steve Baker

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 |
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| Appendix B (h) (3) (B) (v) | For technologies not previously installed and operated in California, the expected power plant maturation period. | N/A | N/A | |
| 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 | N/A | N/A | |
| 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. | N/A | N/A | |
| 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. | N/A | N/A | |
| Appendix B (i) (3) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | N/A | N/A | |

Adequacy Issue: Adequate _____ Inadequate X
 Technical Area: Socioeconomics
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | 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 X

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008

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 |
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| Appendix B (g) (7) (A) (vi) | Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes for the duration of the project schedule. | | No | 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; | | No | 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 X
 Technical Area: Socioeconomics
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

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

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| 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; | | No | Please provide an estimate of capital costs. |
| 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 X
 Technical Area: Socioeconomics
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| 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 X

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008

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

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

Technical Staff: Bob Fiore
 Technical Senior: Paula David

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| Appendix B (i) (3) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Page 5.10-39, Section 5.10.8 | Yes | |

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

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Sections 5.4.1, 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 | | No | 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 X
 Technical Area: Soils
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| 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 | 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 X
 Technical Area: Traffic and Transportation
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

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

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | 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 X
 Technical Area: Traffic and Transportation
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

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

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| 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; | | No | 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 X
 Technical Area: Traffic and Transportation
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Bob Fiore
 Technical Senior: Paula David

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

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| 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 X
 Technical Area: Traffic and Transportation
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| Appendix B (i) (1) (B) | Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities. | 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 X
 Technical Area: Trans Line Safety & Nuisance
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Obed Odoemelam
 Technical Senior: Matthew Layton

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

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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 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 X
 Technical Area: Trans Line Safety & Nuisance
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| Appendix B (i) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Section 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. | | 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. | | 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 X
 Technical Area: Transmission System Design
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| 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 X
 Technical Area: Transmission System Design
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Sudath Arachchige
 Technical Senior: Mark Hesters

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

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| 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 | 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 X
 Technical Area: Transmission System Design
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
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 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 |
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| | 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 | | |
| 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 X
 Technical Area: Transmission System Design
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Sudath Arachchige
 Technical Senior: Mark Hesters

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

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| 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 enforcement authority, but for the exclusive</p> | | No | <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 permit approval or enforcement authority, but for</p> |

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

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| | authority of the commission to certify sites and related facilities. | | | 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. | | 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 X
 Technical Area: Visual Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Project: SES Solar One Project Technical Staff: James Adams
 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 |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | 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 X
 Technical Area: Visual Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Project: SES Solar One Project Technical Staff: James Adams
 Docket: 08-AFC-13 Technical Senior: Paula David

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| 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 X

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008

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 |
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| 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 X
 Technical Area: Visual Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: James Adams
 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 |
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| Appendix B (g) (6) (F) | Provide: i) full-page color photographic reproductions of the existing site, and ii) full-page color simulations of the proposed project at life-size scale when the picture is held 10 inches from the viewer's eyes, including any project-related electrical transmission lines, in the existing setting from each key observation point. If any landscaping is proposed to comply with zoning requirements or to mitigate visual impacts, include the landscaping in simulation(s) representing sensitive area views, depicting the landscaping five years after installation; and estimate the expected time until maturity is reached. | Figures 5.13-2 through 13-5 | No | 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 | No | 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 X

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008

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

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| Appendix B (i) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | 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 X
 Technical Area: Waste Management
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| 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. | | No | 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 X
 Technical Area: Waste Management
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Project: SES Solar One Project Technical Staff: Ellie Townsend-Hough
 Docket: 08-AFC-13 Technical Senior: Paul Marshall

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| 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 X

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008

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 |
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| 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 X

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008

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 |
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| Appendix B (i) (3) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Section 5.14.5.5 Table 5.14-6 | Yes | |

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

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 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 |
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Sections 3.3, 3.4 and 5.5 | No | 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 X
 Technical Area: Water Resources
 Project Manager: Christopher Meyer

DATA ADEQUACY WORKSHEET

Revision No. 0 Date December 31, 2008
 Technical Staff: Casey Weaver
 Technical Senior: Paul Marshall

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

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| 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. | | No | 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 | No | 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 | No | 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 X
 Technical Area: Water Resources
 Project Manager: Christopher Meyer

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Project: SES Solar One Project
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| 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 | |

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| 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: | | | |

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| 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; | | 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 |

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 Technical Area: Water Resources
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| Appendix B (g) (14) (E) (ii) | If the project will pump groundwater, an estimation of aquifer drawdown based on a computer modeling study shall be conducted by a professional geologist and include the estimated drawdown on neighboring wells within 0.5 mile of the proposed well(s), any effects on the migration of groundwater contaminants, and the likelihood of any changes in existing physical or chemical conditions of groundwater resources shall be provided; | | 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; | | 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 | |

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 Technical Area: Water Resources
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| Appendix B (g) (14) (vi) | The effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones; and | 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 | 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 X

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Technical Area: **Water Resources**

Project: SES Solar One Project

Technical Staff: Casey Weaver

Project Manager: Christopher Meyer

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Technical Senior: Paul Marshall

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

Adequacy Issue: Adequate Inadequate
 Technical Area: **Worker Safety & Fire Protection**
 Project Manager: Christopher Meyer

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Revision No. 0 Date December 31, 2008
 Technical Staff: Rick Tyler
 Technical Senior: Rick Tyler

Project: SES Solar One Project
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| Appendix B (g) (1) | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 5.17 | Yes | |
| Appendix B (g) (11) (A) | A description of the safety training programs which will be required for construction and operation personnel. | Section 5.17.2.2 | Yes | |
| Appendix B (g) (11) (B) | A complete description of the fuel handling system and the fire suppression system. | Na | Yes | |
| Appendix B (g) (11) (C) | Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows: | | Yes | |
| | Construction Health and Safety Program: * Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509); | Section 5.17.2.1 | Yes | |
| | * Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920); | Section 5.17.2.1 | Yes | |
| | * Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522) | Section 5.17.2.1 | Yes | |
| | Operation Health and Safety Program: * Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203); | Section 5.17.2.2 | Yes | |
| | * Fire Prevention Plan (8 Cal. Code Regs., § 3221); | Section 5.17.2.2 | Yes | |
| | * Emergency Action Plan (8 Cal. Code Regs., § 3220); | Section 5.17.2.2 | Yes | |
| Personal Protective Equipment Program (8 Cal. Code Regs., §§ 3401-3411). | Section 5.17.2.2 | Yes | | |

Adequacy Issue: Adequate Inadequate
 Technical Area: **Worker Safety & Fire Protection**
 Project Manager: Christopher Meyer

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| Appendix B (i) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Table 5.17-5 | 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 5.17-7 | 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 5.17-6 | Yes | |
| Appendix B (i) (3) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Table 5.17-7 | Yes | |