

## 5.14 WASTE MANAGEMENT

This section presents a discussion of potential effects from the generation, storage, and disposal of hazardous and non-hazardous wastes from the SES Solar Two, LLC (Solar Two or Applicant) Project and its ancillary systems (Project). The discussion in this section covers the waste streams generated during Project construction and operation, the applicable waste disposal sites to be used by the Project, waste mitigation methods to minimize effects to the environment, and applicable laws, ordinances, regulations, and standards (LORS).

### 5.14.1 Affected Environment

#### 5.14.1.1 *Project Site*

The Solar Two Project involves the construction, operation, and maintenance of a 750-megawatt (MW) capacity solar power generating facility and its ancillary systems. The Solar Two Project will consist of approximately 30,000 solar concentrator dishes and their associated infrastructure.

The Solar Two Project Site is located in an undeveloped area of Imperial County, California, approximately 100 miles east of San Diego, California, and 14 miles west of El Centro, California. The Solar Two Project will be located on approximately 6,140 acres of Bureau of Land Management administered public lands and approximately 360 acres of private land, for a total Project area of approximately 6,500 acres.

Phase I of the Solar Two Project will consist of up to 12,000 SunCatchers configured in 200 1.5-MW solar groups of 60 SunCatchers per group that will have a capacity of 300 MW. In Phase II, the Solar Two Project will be expanded to up to 30,000 SunCatchers configured in 500 1.5-MW solar groups of 60 SunCatchers per group capable of generating a nominal capacity of 750 MW at the interconnection point with the San Diego Gas & Electric (SDG&E) electrical grid. Other than the Solar Two Project interconnection transmission line to be constructed by Solar Two to the SDG&E Imperial Valley Substation, no new transmission lines or off-site substations will be required for the 300-MW Phase I construction of the Project.

The Project will be connected to the SDG&E Imperial Valley Substation via an approximate 10.3-mile, double-circuit, 230-kilovolt (kV) transmission line.

The Solar Two Project will include a centrally located Main Services Complex, which will include three SunCatcher assembly buildings, administrative offices, an operations control room, maintenance facilities, and a water treatment complex consisting of a water treatment building, a raw water storage tank, a demineralized water storage tank, and a potable water tank.

Adjacent to the Main Services Complex, a 25-acre construction laydown area will be built. This area will include three SunCatcher assembly buildings. A separate construction laydown area will be located on approximately 100 acres just east of Dunaway Road, near the Project Site entrance.

Site access will be provided via Interstate 8 or Evan Hewes Highway from Dunaway Road. Dunaway Road has an existing exit from Interstate 8 at the southeastern corner of the Solar Two Project Site 14 miles west of El Centro, California.

A Phase I Environmental Site Assessment of the Solar Two Project Site has been prepared in accordance with American Society for Testing and Materials Practice E 1527-05 (see Appendix T, Phase I Environmental Site Assessment). The objective of the Phase I Environmental Site Assessment was to identify Recognized Environmental Conditions (RECs) that may exist on the Solar Two Project Site. No RECs were identified in connection with current or historical operations at the subject property. Features identified on adjacent properties that have a potential to create an REC for the Project Site include “waste disposal ponds” identified at the U.S. government facility adjacent to a corner of the Project Site. Although no information or observed conditions suggested any effects had occurred, further research was recommended to evaluate the potential for effect to soil or groundwater beneath a portion of the Solar Two Project Site.

As described in more detail in Section 5.14.2, Environmental Consequences, the Solar Two Project will generate hazardous and non-hazardous wastes typical of a solar power facility during the construction and operation of the Project.

#### *5.14.1.2 Off-site Structures*

Contractors and equipment suppliers will use 25 acres of the approximately 100-acre laydown east of Dunaway Road during construction to coordinate delivery of construction equipment and materials for construction, worker parking and processing, and for staging truck traffic before entry to the Project Site.

An 8-inch diameter water supply pipeline will be constructed over a distance of approximately 7.2 miles from the Imperial Irrigation District Westside Main Canal to the Solar Two Project Main Services Complex. The water supply pipeline will be defined by a linear survey and will be routed in the Union Pacific Railroad ROW or adjacent to this ROW on federal and private lands. More detail, including the assessor’s parcel numbers associated with these parcels, is listed in Section 5.9, Land Use.

The Solar Two Project transmission system will require construction of approximately 10.3 miles of 230-kV transmission line. The Solar Two Project transmission line extends from the Project Site switchyard to a point inside the ROW of the SDG&E Imperial Valley Substation. The overhead line begins at the dead end structure in the Solar Two Project switchyard, continues east through the Project Site, and transits southeast adjacent to the 500-kV transmission line to the Imperial Valley Substation. Construction of the line will include a dead end structure in the switchyard and 85 to 100 lattice towers and/or tubular steel poles with concrete foundations.

In addition to the water and transmission lines, a main access road will connect the approximate 100-acre laydown area east of Dunaway Road to the Project Site. For a further description of the off-site features, including the waterline, transmission line, and main access road, see Section 3.0, Project Description and Location.

### *5.14.1.3 Non-Hazardous Solid Waste Disposal*

Non-hazardous solid waste disposal facilities (Class III landfills) in the general area of the Solar Two Project are listed in Table 5.14-1, Waste Recycling/Disposal Facilities. These facilities accept non-hazardous wastes and inert solid wastes, including construction/demolition wastes. Liquid wastes are not accepted by these landfills. Industrial process solid waste is accepted on a case-by-case basis.

There are several soil treatment and soil recycling facilities in California that accept hydrocarbon-impacted soil that is classified by the generator as a non-hazardous waste per the Resource Conservation and Recovery Act (RCRA) and Title 22 of the California Code of Regulations (CCR). Acceptable levels for treatment or recycling are established by the individual facilities. These facilities are described in Table 5.14-1, Waste Recycling/Disposal Facilities.

### *5.14.1.4 Hazardous Solid Waste Disposal*

Hazardous waste generated at the Solar Two Project Site will be taken off-site for recycling or disposal by a permitted hazardous waste transporter to a permitted treatment, storage, and disposal facility or Class I landfill. Two Class I landfills are located in California: Safety Kleen's Buttonwillow Landfill in Kern County and Chemical Waste Management's Kettleman Hills Landfill in Kings County. The permitted, operating, and remaining capacities of these landfills are described in Table 5.14-1, Waste Recycling/Disposal Facilities. Hazardous waste generated during construction and operation at the Solar Two Project is not expected to significantly affect available landfill capacity.

### *5.14.1.5 Hazardous and Non-hazardous Wastewater (Non-effluent Waste Streams)*

As listed in Table 5.14-1, Waste Recycling/Disposal Facilities, one California wastewater treatment and recycling facility may accept RCRA hazardous, non-RCRA hazardous, and non-hazardous wastewater. The DeMenno/Kerdoon facility is located in Compton, California.

## **5.14.2 Environmental Consequences**

The analysis of effects related to waste management from the Solar Two Project is based on significance criteria summarized in the bulleted items below.

- Non-hazardous solid wastes must not significantly alter available landfill, recycling, or treatment program capacities.
- Non-hazardous liquid wastes must not cause a publicly owned treatment system to violate any applicable waste discharge requirements.
- Hazardous solid wastes must not significantly alter available Class I landfill capacity.
- The facility must comply with all applicable laws regarding the handling of hazardous wastes.

# SECTION FIVE

## Environmental Information

**Table 5.14-1  
Waste Recycling/Disposal Facilities**

| Waste Disposal Site                                                                                                                 | Title 23 Class | Permitted Throughput  | Permitted Capacity       | Remaining Capacity      | Estimated Closure Date | Enforcement Action Taken? |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------|--------------------------|-------------------------|------------------------|---------------------------|
| <b>Solid Recycling</b>                                                                                                              |                |                       |                          |                         |                        |                           |
| Calexico Solid Waste Site<br>New River and Highway 98<br>Calexico, CA 92231                                                         | Class III      | 150 tons per day      | 2.1 million cubic yards  | 1.5 million cubic yards | 2022                   | No                        |
| Imperial Solid Waste Site<br>1705 West Worthington Road<br>Imperial, CA 92251                                                       | Class III      | 207 tons per day      | 1.9 million cubic yards  | 184,000 cubic yards     | 2015                   | No                        |
| Allied Imperial Landfill<br>104 East Robinson Road<br>Imperial, CA 92251                                                            | Class III      | 1,135 tons per day    | 4.3 million cubic yards  | 2.1 million cubic yards | 2013                   | No                        |
| Mesquite Regional Landfill                                                                                                          | Class III      | Not yet operating     | Not applicable           | Not applicable          | 2097                   | No                        |
| American Remedial Technologies<br>(Solids Recycling)<br>2680 Seminole Avenue<br>Lynwood, CA 90262                                   | Not Applicable | 25,000 tons per month | 300,000 tons per year    | Not applicable          | Not applicable         | No                        |
| TPS Technologies, Inc.<br>(Soil Recycling)<br>12328 Hibiscus Avenue<br>Adelanto, CA 92301                                           | Not Applicable | Not applicable        | 350,000 tons per year    | Not applicable          | Not applicable         | No                        |
| Thermal Remediation Solutions<br>(Solids Recycling)<br>1211 West Gladstone Avenue<br>Azusa, CA 91702                                | Class III      | 200,000 tons per year | 2,000 tons per day       | Not applicable          | Not applicable         | No                        |
| Chemical Waste Management Kettleman Hills Landfill<br>(Solids Waste Facility)<br>36251 Old Skyline Road<br>Kettleman City, CA 93239 | Class I        | 8,000 tons per day    | 10.7 million cubic yards | 6 million cubic yards   | Not Available          | No                        |

**Table 5.14-1  
Waste Recycling/Disposal Facilities**

| Waste Disposal Site                                                                             | Title 23 Class | Permitted Throughput                                                                      | Permitted Capacity                        | Remaining Capacity | Estimated Closure Date | Enforcement Action Taken? |
|-------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------|-------------------------------------------|--------------------|------------------------|---------------------------|
| Clean Harbors Buttonwillow Landfill<br>(Solid Waste Facility)<br>Lokern Road<br>Kern County, CA | Class I        | 10.48 thousand tons per day                                                               | 14.29 million cubic yards                 | Not available      | 2040                   | No                        |
| <b>Liquid Recycling</b>                                                                         |                |                                                                                           |                                           |                    |                        |                           |
| DeMenno/Kerdoon<br>2000 North Alameda Street<br>Compton, CA 90222                               | Not applicable | 84.1 million gallons per year of oily water and 123 million gallons per year of waste oil | Approximately 30 million gallons per year | Not applicable     | Not applicable         | No                        |

Source: CIWMB Solid Waste Inventory System Database, 2008.

In addition to the significance criteria summarized above, according to the California Environmental Quality Act (CEQA) Appendix G guidelines, a Project has a significant effect when it:

- breaches standards relating to solid waste or litter control,
- creates a potential public health hazard or involves materials that pose a hazard, and
- results in a need for new systems or substantial alterations to waste disposal facilities.

The following sections describe the wastes that are expected to be generated during construction and operation of the Solar Two Project and how non-hazardous solid waste, wastewater, and hazardous solid and liquid wastes will be disposed.

**5.14.2.1 Construction**

**Project Construction**

The Solar Two Project will generate wastes typical for the construction of a solar power facility. Table 5.14-2, Summary of Construction Waste Streams and Management Methods, summarizes the anticipated waste streams generated during construction, along with appropriate management methods for treatment or disposal.

**Table 5.14-2  
Summary of Construction Waste Streams  
and Management Methods<sup>1</sup>**

| <b>Waste Stream and Classification</b>         | <b>Origin and Composition</b>                                                          | <b>Estimated Amount</b> | <b>Estimated Frequency of Generation</b> | <b>On-site Treatment</b>                                         | <b>Waste Management Method</b>                                   |
|------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------|------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|
| Construction waste – non-hazardous, recyclable | Scrap wood, steel, glass, plastic, or paper                                            | 80 cubic yards          | Week                                     | Segregation into composition type<br>Store for less than 30 days | Dispose to landfill or recycling facility                        |
| Construction waste – hazardous                 | Empty hazardous material containers                                                    | 2 cubic yards           | Week                                     | Store for less than 90 days                                      | Return to vendor or dispose to hazardous waste disposal facility |
| Construction waste – hazardous                 | Solvents, used oils, paint, oily rags, cleaners and adhesives                          | 200 gallons             | Every 90 days                            | Store for less than 90 days                                      | Dispose to hazardous waste disposal facility or recycle          |
| Construction waste – hazardous                 | Waste oil including used motor oil, transmission fluid, hydraulic fluid and antifreeze | 200 gallons             | Every 90 days                            | Store for less than 90 days                                      | Dispose to hazardous waste disposal facility or recycle          |

**Table 5.14-2  
Summary of Construction Waste Streams  
and Management Methods<sup>1</sup>**

| Waste Stream and Classification                                     | Origin and Composition                                              | Estimated Amount   | Estimated Frequency of Generation     | On-site Treatment           | Waste Management Method                                                                                        |
|---------------------------------------------------------------------|---------------------------------------------------------------------|--------------------|---------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| Spent batteries – hazardous                                         | Lead acid, alkaline type                                            | 40 per year        | Intermittent                          | Store for less than 90 days | Dispose to recycling facility                                                                                  |
| Storm water from construction area – non-hazardous                  | Surface runoff (water, inert material, dirt and concrete particles) | 15 gallons per day | Intermittent – during rainfall events | None                        | Storm water will percolate into on-site soils and/or will be managed per Storm Water Pollution Prevention Plan |
| Residual solids from retention pond and temporary perforated risers | Soils sediment and concrete particles                               | 50 cubic yards     | Intermittent – during rainfall events | Spread over site            | Excavate as needed per Storm Water Pollution Prevention Plan and at the end of construction                    |
| Sanitary waste – non-hazardous                                      | Portable chemical toilets sanitary waste                            | 400 gallons        | Daily                                 | None                        | Pumped to tanker truck by licensed contractors ship to sanitary water treatment plant                          |

Source: SES Solar Two, LLC, 2008.

Note:

<sup>1</sup>All numbers are estimates.

### Non-Hazardous Waste

Inert solid wastes resulting from construction activities may include recyclable items such as paper, cardboard, solid concrete and block, metals, wire, glass, type 1 to 4 plastics, drywall, wood and lubricating oils. Non-recyclable items include insulation, other plastics, food waste, roofing materials, vinyl flooring and base, carpeting, paint containers, packing materials, and other construction wastes. Management of these wastes will be the responsibility of the construction contractor(s). Typical management practices required for contractor waste include recycling when possible, proper storage of waste and debris to prevent wind dispersion, and weekly pickup of wastes with disposal at an approved Class III landfill.

It is expected that a 40-cubic yard container will need to be emptied on a weekly basis during the construction of the buildings, and once a month thereafter. Recyclable materials will be separated into labeled bins and removed from the Project Site as needed. This construction waste is not expected to have a significant effect on public health or cause adverse effects on local landfill capacity.

### Hazardous Waste

Small quantities of hazardous wastes will likely be generated over the course of construction. These wastes may include waste paint, spent construction solvents, waste cleaners, waste oil,

oily rags, waste batteries, and spent welding materials. Hazardous wastes generated during Project construction and operation will be handled and disposed of in accordance with applicable LORS. Hazardous wastes will be either recycled or disposed of, as appropriate, in a licensed Class I disposal facility. When managed and disposed of properly, these wastes will not cause significant environmental or health and safety effects. Most of the hazardous waste generated during construction, such as used oil, can be recycled. The small quantities of hazardous waste that cannot be recycled are not expected to significantly affect the capacity of the Class I landfills in California.

### **Wastewater**

Wastewater generated during construction of the Project will include sanitary wastes, equipment wash water, and storm water runoff. Construction-related wastewater will be managed according to appropriate LORS.

Erosion and sedimentation control will be implemented during construction to retain sediment on-site and to prevent violations of water quality standards. This implementation will be conducted in accordance with Best Management Practices (BMPs). A Storm Water Pollution Prevention Plan will be prepared in conformance with the State Water Resources Control Board (SWRCB) Order Number 99-08-DWQ, General Permit Number CAS000002.

The Project development will alter the land areas of the site. Some existing vegetation will be removed, as required during site preparation. The general preparation of the overall site, as previously described, will be followed by grading activities required for the construction of the roadways and buildings. Grading for the construction of the roadways and buildings may include application of earth binding materials to disturbed areas not occupied by Project buildings or surfaced with concrete, asphalt, or crushed aggregate.

Site drainage during construction will follow pre-development flow patterns with ultimate site discharge to Dunaway Road at the northeastern property boundary. Low-flow culverts consisting of a small-diameter storm drain with a perforated stem pipe will be installed for sediment control and to provide for storm peak attenuation. These actions are based on BMPs for erosion and sediment control.

Temporary erosion and sedimentation control measures to be used during construction will be designed to prevent sediment from being displaced and carried off-site by storm water runoff. Before beginning excavation activities, a silt fence, straw bales, or other BMP measures will be installed along the perimeter of the Project where minor runoff to off-site areas could occur. The silt fence will filter sediment from construction runoff. Berms with perforated risers will be used at road crossings and other locations as needed to control sediment transportation. During construction, the extent of earth disturbances will be minimized as much as practical. A sediment trap will be constructed for the major site runoff discharge. The sediment trap will be located immediately upstream of the property boundary.

Diversion ditches and/or berms will be constructed as necessary to divert runoff from off-site areas around the construction site. Temporary BMP control measures will be maintained as necessary throughout the construction period.

*Off-site Structures*

**Non-hazardous and Hazardous Waste**

Small amounts of non-hazardous and hazardous wastes, as discussed above, may be generated at the construction laydown areas.

**5.14.2.2 Operations and Maintenance**

*Project Operations*

Operation of the Project will generate wastes resulting from processes, routine maintenance, and office activities typical of solar electric generation operations. The operating waste streams and management methods are summarized in Table 5.14-3, Summary of Operation Waste Streams and Management Methods, and are described in more detail below. Non-hazardous wastes generated during operation of the Project will be recycled to the greatest extent practical and the remainder of the wastes will be removed on a regular basis by a certified waste-handling contractor. The types of waste and their estimated quantities are shown in Table 5.14-3.

**Table 5.14-3  
Summary of Operation Waste Streams and Management Methods**

| <b>Waste Stream and Classification</b>                                  | <b>Origin and Composition</b>                 | <b>Estimated Amount</b> | <b>Estimated Frequency of Generation</b> | <b>On-site Treatment</b>                                       | <b>Waste Management Method</b>                                                                   |
|-------------------------------------------------------------------------|-----------------------------------------------|-------------------------|------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Office and packaging materials from supplies deliveries – non-hazardous | Paper, wood, plastic, cardboard               | 10 cubic yards per week | Intermittent                             | Segregation into composition type, store for less than 30 days | Weekly collection for recycling and/or approved waste disposal                                   |
| Sanitary wastewater solids – non-hazardous                              | Rest rooms and sanitary waste                 | 5,000 gallons per month | Intermittent                             | Septic system                                                  | Dispose of clear liquid to on-site sanitary leach field and sludge to off-site disposal facility |
| Spent batteries – hazardous, recyclable                                 | Lead acid, alkaline, gel cell, nickel cadmium | 30 units per week       | Intermittent                             | Store for less than 30 days                                    | Dispose to authorized waste recycle facility                                                     |
| PCU oil and motor oil – hazardous, recyclable                           | PCU overhaul                                  | 18 gallons per month    | Intermittent                             | Two 100 U.S.-gallon tanks for filtering and re-use in PCU      | Recycle                                                                                          |
| PCU coolant – ethylene glycol – hazardous                               | PCU overhaul                                  | 18 gallons per month    | Intermittent                             | Store for less than 90 days                                    | Dispose to authorized waste disposal facility                                                    |

**Table 5.14-3  
Summary of Operation Waste Streams and Management Methods**

| <b>Waste Stream and Classification</b>                                                  | <b>Origin and Composition</b>                             | <b>Estimated Amount</b>        | <b>Estimated Frequency of Generation</b> | <b>On-site Treatment</b>     | <b>Waste Management Method</b>            |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------|------------------------------------------|------------------------------|-------------------------------------------|
| PCU hydrogen gas – non-hazardous, recyclable                                            | Refill k-bottles in place                                 | 5,000 k-bottles per month      | 2 times per year per SunCatcher          | Refill k-bottles on-site     | Empty k-bottles returned through supplier |
| Oily absorbent and spent oil filters – hazardous, recyclable                            | PCU and hydraulic equipment overhauls                     | One 55-gallon drum per month   | Intermittent                             | Store for less than 90 days  | Dispose to authorized recycle facility    |
| Oily rags – non-hazardous                                                               | PCU and hydraulic equipment overhauls                     | One 55-gallon drum per month   | Intermittent                             | Store for less than 90 days  | Launder at authorized recycle facility    |
| Used hydraulic fluid, oils and grease – hazardous, recyclable                           | PCU and hydraulic equipment overhauls                     | Less than 11 gallons per month | Intermittent                             | Store for less than 90 days  | Dispose to authorized recycle facility    |
| De-mineralized water treatment wastewater salt cake – non-hazardous or designated waste | Zero discharge system; naturally occurring salt compounds | 90,200 pounds per year         | Intermittent                             | Evaporative pond containment | Non-hazardous waste disposal facility     |

Source: SES Solar Two, LLC, 2008.

Notes:

<sup>1</sup> Assumption is based on 5,300 U.S. gallons per year Power Conversion Unit oil changes will be conducted at a 98 percent recovery rate. All numbers are estimates.

PCU = Power Conversion Unit

U.S. = United States

Inert solid wastes generated at the Project Site during operation will be predominantly office wastes and routine maintenance wastes, such as scrap metal, wood and plastic from surplus and deactivated equipment and parts. Scrap materials such as paper, packing materials, glass, metals, and plastics will be segregated and managed for recycling. Non-recyclable inert wastes will be stored in covered trash bins in accordance with local ordinances and picked up by an authorized local trash hauler on a regular basis for transport to and disposal in a suitable landfill.

***Non-hazardous Solid Waste***

The Solar Two Project will produce operation and maintenance wastes typical of a solar power facility. The following types of non-hazardous solid waste may be generated: paper, wood, plastic, cardboard, deactivated equipment and parts, defective or broken electrical materials, empty non-hazardous containers, and other miscellaneous solid wastes, including the typical refuse generated by workers.

Office paper, newsprint, aluminum cans, wood, insulation, yard debris, concrete, gravel, scrap metal, cardboard, glass, plastic containers, and other non-hazardous waste materials will be segregated and recycled to the extent practical, and the remainder will be removed on a regular basis by a certified waste-handling contractor for disposal at a Class III landfill.

*Liquid Wastes*

Non-hazardous liquid wastes produced by the Project will consist of wastes from the wastewater system.

The layout of the Solar Two Project Site will be based on avoiding major washes and minimizing surface-disturbing activities. The site layout will maintain local pre-development drainage patterns where feasible and discharge from the site will remain at the northeastern boundary. The paved roadways will have a low-flow unpaved swale or roadway dip, as needed, to convey nuisance runoff to existing drainage channels or swales and use low-flow culverts. It is expected that storm water runoff will flow over the crown of the paved roadways, which are typically less than 6 inches from swale flow line to crown at centerline of roadway, thus maintaining existing local drainage patterns during storms. Unpaved roads will utilize low-flow culverts.

Localized channel grading will take place on a limited basis to improve channel hydraulics, and to control flow direction where buildings and roadways are proposed. Also, a channel will be constructed along the northeastern portion of the site. The Main Services Complex will be protected from a 100-year flooding by berms or channels that will direct the flow around the perimeter of the building site, if required.

A proposed channel, located within portions of Sections 9, 10 and 11 of Township 16 South, Range 11 East, will be constructed adjacent to the railroad and will discharge to the existing Dunaway Road dip section. This action will maintain existing pre-development flow patterns. Spoils from the channel will be placed along the southern floodplain, thereby minimizing flooding effects to the SunCatchers placed along the southern bank. The proposed channel will improve acceptance of off-site waters at the railroad trestle in Section 9.

Arizona Crossings (roadway dips) or low-flow culverts consisting of a small-diameter storm drain with a perforated stem pipe will be placed in the roadways, as needed, to cross the minor or major channels or swales. These measures are based on BMPs for erosion and sediment control.

The proposed East-West on-site paved arterial roadway section between the Main Services Complex and the 100-acre laydown area at Dunaway Road will be designed as a designated evacuation route. As such, culverts will be designed such that the roadway section shall have its driving surface constructed above the projected profile of a 100-year flood event.

Building sites will be developed per county drainage criteria, with provision for a soft-bottom storm water retention basin. Rainfall from paved areas and building roofs will be collected and directed to the storm water retention basins. The volume of the retention or detention basins should have a total volume capacity for a 3-inch minimum precipitation event covering the entire site with no C reduction (coefficient of runoff) factors. Volume can be considered by a combination of basin size and additional volume provided within paving and/or landscaping areas.

The retention basin will be designed so that the retained flows will empty within 72 hours after the storm to provide mosquito abatement. This characteristic can be accomplished by draining, evaporation, infiltration, or a combination thereof.

The post-development flow rates released from the Project Site are expected to be less than the pre-development flow rates, thus complying with the BMPs.

All runoff crossing the site will flow north and east and will eventually reach the railroad tracks or Dunaway Road. Flow that reaches Dunaway Road will follow existing drainage north toward the railroad tracks. Flows reaching the railroad tracks will flow through the existing trestles or will follow existing drainage east. Flow will follow the railroad embankment and will then flow through the nearest trestle. Flow in excess of the capacity of the trestle will pond until it can flow through. As is the case with the interstate highway, sediment is deposited near the upstream side of the railroad embankment and under each of the trestles. Additional flows affect the northeast side of the Project Site, flowing south through the railroad embankment. The majority of the flow along the east side of the Project crosses Dunaway Road just south of the railroad tracks. Ponding and sediment deposition in this area may be expected to create localized flooding during rainfall events.

A local, site-specific, small wastewater treatment plant at the Main Services Complex is proposed to process sanitary wastewater. A facility of this type will require permitting by the local Regional Water Quality Control Board (RWQCB), and will be designed to meet the operation and maintenance guidelines required by the State of California Department of Health Services.

Wastewater at the Main Services Complex will be discharged into a septic system with sanitary leach field, and will be designed to meet guidelines required by the RWQCB and the Department of Health Services.

### *Hazardous Waste*

Hazardous waste generated will include used oils from equipment maintenance and oil-contaminated materials, such as spent oil filters, rags, or other cleanup materials. Used oil generated will be recycled, and oil or heavy metal contaminated materials (e.g., filters) requiring disposal will be disposed of in a Class I waste disposal facility. Table 5.14-3, Summary of Operation Waste Streams and Management Methods, summarizes the hazardous waste to be generated during Project operation.

Hazardous wastes will be collected by a licensed hazardous waste hauler and disposed of at a licensed hazardous waste facility. Hazardous wastes will be transported off-site using a hazardous waste manifest. Copies of manifest reports, waste analysis, exception reports, destruction certifications, etc., will be kept on-site and made accessible for inspection for 3 years. Land disposal restriction notices/certificates will be kept on-site and accessible for inspection for 5 years.

#### *5.14.2.3 Abandonment/Closure*

Premature closure or unexpected cessation of Project operations will be outlined in the Project closure plan. The plan will outline steps to secure hazardous and non-hazardous materials and wastes. Such steps will be consistent with BMPs and the Hazardous Materials Business Plan (HMBP) and will be undertaken according to applicable LORS. The plan will include the monitoring of vessels and receptacles of hazardous material and wastes, safe cessation of processes using hazardous materials or hazardous wastes, and inspection of secondary containment structures.

Planned permanent closure effects will be incorporated into the Project closure plan and evaluated at the end of the generating stations' economic operation. The Project closure plan will document non-hazardous and hazardous waste management practices, including the inventory, management, and disposal of hazardous materials and wastes, and permanent closure of permitted hazardous materials and waste storage units.

### 5.14.3 Cumulative Effects

The Class I and Class III landfills and soil and water recycling facilities in vicinity of the Solar Two Project have adequate recycling and disposal capacities for the Solar Two Project. Therefore, cumulative effects from the Project Site and other projects in the region are not expected to be significant.

### 5.14.4 Mitigation Measures

#### 5.14.4.1 *Construction*

##### *WM-1*

Before the initiation of the Project construction phase, construction employees will receive hazardous waste-related training that will focus on the recognition of subsurface soil contamination and contingency procedures to be followed to protect worker safety and the public.

##### *WM-2*

A detailed waste management plan for all waste generated during construction will be prepared at least 60 days before rough grading to ensure proper storage, labeling, packaging, recordkeeping, manifesting, waste minimization principles, and disposal of all hazardous materials and waste. A waste management plan will also be prepared for operation of the Solar Two Project. The waste management plan will include:

- a description of each hazardous waste stream,
- handling, storage, transport, treatment, and disposal procedures for each waste,
- preparedness, prevention, contingency, and emergency procedures, and
- personnel training.

***WM-3***

All hazardous wastes will be stored on-site for fewer than 90 days (or other accumulation periods, as allowed by 22 CCR 66262.34 for hazardous waste generators) and will be managed in accordance with state and federal hazardous waste generator requirements. Hazardous wastes, together with hazardous materials that are spilled or otherwise become unsuitable for use, will be stored in an appropriately segregated hazardous waste storage area surrounded by a containment structure to control leaks and spills. The containment area will be constructed according to local codes and requirements. The hazardous waste storage areas will be inspected and maintained weekly, as required.

***WM-4***

Hazardous wastes will be collected by a licensed hazardous waste hauler and disposed of at a hazardous waste facility. Hazardous wastes will be transported off-site using a hazardous waste manifest. Copies of manifest reports, waste analysis, exception reports, destruction certifications, etc., will be kept on-site and accessible for inspection for 3 years. Land disposal restriction notices/certificates will be kept on-site and accessible for inspection for 5 years.

***WM-5***

Spill control and management procedures will be included in the emergency response procedures developed before operation of the Solar Two Project. The purpose of the spill control and management procedures is to avoid accidental mixing of incompatible chemicals and spills during transfer of chemicals. The design of spill control and management procedures will include the containment, collection, and treatment systems. The spill response procedures are discussed further in Section 5.15, Hazardous Materials Handling.

***WM-6***

Solar Two employees will receive hazardous materials training as required by the Occupational Safety and Health Administration, Hazard Communication Standard. Also, employees will be trained in hazardous waste procedures, spill contingencies, and waste minimization procedures in accordance with 22 CCR. Hazardous waste training will include the following subjects:

- hazardous waste characteristics,
- use and management of containers,
- waste packing,
- marking and labeling,
- accumulation/storage areas,
- inspections,
- emergency equipment preparedness and prevention,
- contingency plan,
- emergency response procedures,

- spill response and containment,
- hazardous waste manifesting and transportation requirements, and
- waste minimization practices.

#### *WM-7*

Procedures to minimize hazardous waste generation will be established. Employees will be trained in procedures to reduce the volume of hazardous wastes generated by the Solar Two Project. The procurement of hazardous materials will be controlled to minimize surplus materials on-site and to prevent unused materials from becoming “off-spec.” Non-hazardous materials will be used in lieu of hazardous materials whenever possible. Hazardous materials will be reused whenever possible. Hazardous wastes will be recycled whenever possible.

Implementation of these waste management procedures for handling construction-related debris and hazardous wastes, where encountered, will mitigate construction-related effects to a less than significant level. No further mitigation is proposed.

#### *5.14.4.2 Operations and Maintenance Mitigation*

##### *Project Site*

The Applicant will update the waste management procedures for construction (WM-1 through WM-7) of the site and implement them for Project operations. Also, the Applicant will develop and implement procedures and requirements as outlined in the HMBP. These procedures and programs will minimize potential Project operations-related effects.

#### *5.14.4.3 Monitoring Program*

Environmental effects related to the waste management issues caused by construction and operation of the Solar Two Project are expected to be minimal. Therefore, extensive monitoring programs are not required. Monitoring of generated waste volumes and characteristics during construction and operation of the Solar Two Project will be conducted in accordance with monitoring and reporting requirements in the appropriate permits that will be obtained for construction and operation.

#### **5.14.5 Compliance with LORS**

##### *5.14.5.1 Federal*

RCRA (42 USC 6901 – 6992k) provides the basic framework for federal regulation of non-hazardous and hazardous waste. RCRA’s Subtitle D establishes state responsibility for regulating non-hazardous wastes, and Subtitle C controls the generation, transportation, storage, and disposal of hazardous waste through a comprehensive “cradle to grave” system of hazardous waste management techniques and requirements. The Environmental Protection Agency (EPA) is responsible for implementing the law. The implementing regulations are set forth in 40 CFR 260, *et seq.* The law allows EPA to delegate the administration of the RCRA programs to the

various states provided that the state programs meet the federal requirements. California's program was authorized by EPA on 1 August 1992, and the California Department of Toxic Substances Control (DTSC) is responsible for administering the program.

The Clean Water Act (CWA) (33 USC 1251 *et seq.*) provides the regulatory framework for managing the discharge of wastewater to surface waters of the U.S. The EPA has nationwide authority to implement the CWA, but states may be authorized to administer various aspects of the National Pollutant Discharge Elimination System (NPDES) as well as pretreatment programs. California is authorized under the CWA to administer the NPDES program, implement publicly owned treatment works' pretreatment programs, oversee federal facilities, and issue general permits.

#### **5.14.5.2 State**

Non-hazardous solid waste is regulated by the California Integrated Waste Management Act (Public Resources Code 40000 *et seq.*). The law provides a solid waste management system to reduce, recycle, and reuse solid waste generated in the state to the maximum extent feasible in an efficient and cost-effective manner to conserve natural resources, to protect the environment, and to improve landfill safety. Local agencies are required to develop and establish recycling programs, reduce paper waste, purchase recycled products, and implement integrated waste management programs that conform to the state's requirements. The County of Imperial Public Works Department has the authority to ensure the proper storage and disposal of solid waste in Imperial County.

Wastewater is regulated under California's Porter-Cologne Water Quality Control Act, which established a statewide system for water pollution control (Water Code 13000 *et seq.*). The SWRCB and the nine RWQCBs are the principal agencies responsible for control of water quality and issuing permits under the NPDES program.

The on-site accumulation of hazardous waste is regulated under CCR 66262.34. Hazardous waste cannot be stored on-site for more than 90 days, so any hazardous waste stored on-site at the Solar Two Project would have to be appropriately transferred within that time period.

As stated previously, RCRA allows states to develop their own programs to regulate hazardous waste. California has developed its own program by passage of the California Hazardous Waste Control Law (California Health and Safety Code 25100 *et seq.*). It should be noted that California's Hazardous Waste Control Law includes non-RCRA hazardous wastes. Also, the law specifies two hazardous waste criteria (the Soluble Threshold Limit Concentration and the Total Threshold Limit Concentration) that are not required under RCRA. Primary authority for the statewide administration and enforcement of California's Hazardous Waste Control Law rests with the DTSC. The local DTSC office, in nearby Calexico, California, provides regulatory functions covering those entities that generate hazardous waste in Imperial County.

#### **5.14.5.3 Local**

For hazardous waste, the designated Certified Unified Program Agency (CUPA) for the Solar Two Project area is the Calexico DTSC. This agency has delegated authority to administer state and federal programs. Also, the DTSC regulates the storage of hazardous materials in underground storage tanks and cleanup of petroleum releases from underground storage tanks.

The DTSC will be contacted in the event of a release of hazardous wastes or materials to the environment. The DTSC assumes enforcement responsibility for the implementation of 23 CCR and regulates the generation and storage of hazardous waste for the Solar Two Project area.

The LORS applicable to the handling of non-hazardous and hazardous waste at the Project Site are summarized in Table 5.14-4, Summary of LORS – Waste Management.

**Table 5.14-4  
Summary of LORS – Waste Management**

| LORS                                                                                             | Requirements                                                                                                                             | Conformance Section | Administering Agency                       | Agency Contact                                                |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------|---------------------------------------------------------------|
| <b>Federal Jurisdiction</b>                                                                      |                                                                                                                                          |                     |                                            |                                                               |
| RCRA Subtitle C and D, 42 USC §§ 6901 to 6992k, and Section 6.12.2.1.                            | Regulate non-hazardous and hazardous wastes. Laws implemented by the state.                                                              | Section 5.14.5.1    | DTSC                                       | DTSC Imperial County CUPA Office<br>760-768-7107              |
| 40 CFR 260, <i>et seq.</i>                                                                       | Implementing regulations for RCRA Subtitle C law. Implemented by EPA by delegating to the state.                                         | Section 5.14.5.1    | DTSC                                       | DTSC Imperial County CUPA Office<br>760-768-7107              |
| Federal Clean Water Act, 33 USC § 1251 <i>et seq.</i>                                            | Regulates wastewater discharges to surface waters of the U.S. The NPDES program is administered at the state level.                      | Section 5.14.5.1    | Colorado River Basin RWQCB                 | General Information<br>760-346-7491                           |
| <b>State Jurisdiction</b>                                                                        |                                                                                                                                          |                     |                                            |                                                               |
| California Integrated Waste Management Act, Public Resources Code § 40000 <i>et seq.</i>         | Implements RCRA regulations for non-hazardous waste.                                                                                     | Section 5.14.5.2    | County of Imperial Public Works Department | Deputy Director of Public Works – Solid Waste<br>760-482-4462 |
| Porter-Cologne Water Quality Control Act of 1998, Water Code § 13000 <i>et seq.</i>              | Regulates wastewater discharges to surface and groundwater of California. NPDES program implemented by SWRCB.                            | Section 5.14.5.2    | Colorado River Basin RWQCB                 | General Information<br>760-346-7491                           |
| 22 CCR § 66262.34                                                                                | Regulates accumulation periods for hazardous waste generators. Typically hazardous waste cannot be stored on-site for more than 90 days. | Section 5.14.5.2    | DTSC                                       | DTSC Imperial County CUPA Office<br>760-768-7107              |
| California Hazardous Waste Control Law, California Health and Safety Code § 25100 <i>et seq.</i> | Regulates hazardous waste handling and storage.                                                                                          | Section 5.14.5.2    | DTSC                                       | DTSC Imperial County CUPA Office<br>760-768-7107              |

**Table 5.14-4  
Summary of LORS – Waste Management**

| LORS                            | Requirements                                                                                                                                                                               | Conformance Section | Administering Agency                                   | Agency Contact                                   |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------|--------------------------------------------------|
| <b>Local Jurisdiction</b>       |                                                                                                                                                                                            |                     |                                                        |                                                  |
| DTSC Imperial County CUPA       | Regulates enforcement responsibility for the implementation of Title 23, Division 3, Chapters 16 and 18 of the CCR, as it relates to hazardous material storage and petroleum UST cleanup. | Section 5.14.5.3    | DTSC                                                   | DTSC Imperial County CUPA Office<br>760-768-7107 |
| DTSC Imperial County CUPA       | Regulates hazardous waste generator permitting, and hazardous waste handling and storage.                                                                                                  | Section 5.14.5.3    | DTSC                                                   | DTSC Imperial County CUPA Office<br>760-768-7107 |
| County of Imperial General Plan | Will ensure all new development complies with applicable provisions of County Integrated Solid Waste Management Plan.                                                                      | Section 5.14.5.3    | County of Imperial Department of Planning and Building | 760-482-4675                                     |

Source: California Department of Toxic Substances Control, 2008; Cal/EPA, 2008; Colorado River Basin Regional WQCB, 2008; County of Imperial Department of Building and Planning, 2008.

Notes:

|       |                                                   |
|-------|---------------------------------------------------|
| CCR   | = California Code of Regulations                  |
| CFR   | = Code of Federal Regulations                     |
| CUPA  | = Certified Unified Program Agency                |
| DTSC  | = Department of Toxic Substances Control          |
| LORS  | = laws, ordinances, regulations, and standards    |
| NPDES | = National Pollutant Discharge Elimination System |
| RCRA  | = Resource Conservation and Recovery Act          |
| RWQCB | = Regional Water Quality Control Board            |
| SWRCB | = State Water Resources Control Board             |
| U.S.  | = United States                                   |
| USC   | = United States Code                              |
| EPA   | = Environmental Protection Agency                 |
| UST   | = underground storage tank                        |

#### 5.14.5.4 Agency Contacts

Agencies with jurisdiction to issue applicable permits or enforce LORS related to waste management are shown in Table 5.14-5, Agency Contact List for LORS.

**Table 5.14-5  
Agency Contact List for LORS**

| Agency                                        | Contact                                                        | Address                                                  | Telephone    |
|-----------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|--------------|
| DTSC Imperial County<br>CUPA Office           | Roger Vintze<br>CUPA Director                                  | 301 Heber Avenue<br>Calexico, CA 92231                   | 760-768-7107 |
| County of Imperial<br>Public Works Department | Joe Larsen<br>Deputy Director of Public<br>Works – Solid Waste | 155 South 11 <sup>th</sup> Street<br>El Centro, CA 92243 | 760-482-4462 |

Source: California Department of Toxic Substances Control, 2008; Cal/EPA, 2008; Colorado River Basin WQCB, 2008.

Notes:

- CUPA = Certified Unified Program Agency  
 DTSC = Department of Toxic Substances Control  
 LORS = laws, ordinances, regulations, and standards

#### 5.14.5.5 Applicable Permits

Solar Two will apply for a EPA hazardous waste generator identification number from the DTSC and a hazardous waste generator permit from the DTSC Imperial County CUPA. Also, the Applicant will be required to develop a HMBP for the DTSC Imperial County CUPA. A summary of applicable permits is presented in Table 5.14-6, Applicable Permits.

**Table 5.14-6  
Applicable Permits**

| Responsible Agency                  | Permit/Approval                                        | Schedule                                                     |
|-------------------------------------|--------------------------------------------------------|--------------------------------------------------------------|
| DTSC Imperial County<br>CUPA Office | EPA Hazardous Waste Generator<br>Identification Number | 30 days before generation of<br>hazardous waste.             |
| DTSC Imperial County<br>CUPA Office | Hazardous Materials Business<br>Plan                   | 30 days before the storage and use of<br>hazardous materials |

Source: California Department of Toxic Substances Control, 2008.

Notes:

- CUPA = Certified Unified Program Agency  
 DTSC = Department of Toxic Substances Control  
 EPA = Environmental Protection Agency

#### 5.14.6 References

Barclays Law Publishers. No date. Barclays Official California Code of Regulations.

Cal/EPA (California Environmental Protection Agency), San Diego Regional Water Quality Control Board (WQCB). 2008. Information downloaded from:  
<http://www.waterboards.ca.gov/sandiego/>. March.

California Department of Toxic Substances Control. 2008. Information downloaded from:  
<http://www.dtsc.ca.gov>. April.

California Stormwater Quality Association. 2004. *Stormwater Best Management Practice Handbook, Industrial and Commercial*.

CIWMB (California Integrated Waste Management Board). 2008. Information downloaded from: <http://www.ciwmb.ca.gov/SWIS>. April.

County of Imperial, Department of Building and Planning. 2008. Information downloaded from: <http://www.co.imperial.ca.us/planning/>. April.

Office of the Federal Register. 1997. Code of Federal Regulations, Title 40, Parts 260 to 265, Revised July 1.

SES Solar Two, LLC. 2008. *Project Description and Plan of Development*.

URS Corporation. 2008. Phase I Site Assessment for Solar Two Project Site.

WQCB (Colorado River Basin Regional Water Quality Control Board). 2008. [www.swrcb.ca.gov/rwqcb7](http://www.swrcb.ca.gov/rwqcb7).

| Adequacy Issue:           |                                                                                                                                                                                                                                                                                                                                                                                               | Adequate                | Inadequate | DATA ADEQUACY WORKSHEET                            |                           | Revision No.                                                     | 0 | Date |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------|----------------------------------------------------|---------------------------|------------------------------------------------------------------|---|------|
| Technical Area:           |                                                                                                                                                                                                                                                                                                                                                                                               | <b>Waste Management</b> |            | Project: Solar Two Project                         |                           | Technical Staff:                                                 |   |      |
| Project Manager:          |                                                                                                                                                                                                                                                                                                                                                                                               |                         |            | Docket:                                            |                           | Technical Senior:                                                |   |      |
| <b>SITING REGULATIONS</b> | <b>INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                            |                         |            | <b>AFC SECTION NUMBER</b>                          | <b>ADEQUATE YES OR NO</b> | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b> |   |      |
| Appendix B<br>(b) (1) (C) | A detailed description of the design, construction and operation of the Project, 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 5.14.1.1<br>Section 5.14.1.2               |                           |                                                                  |   |      |
| Appendix B<br>(e) (1)     | A discussion of how Project closure will be accomplished in the event of premature or unexpected cessation of operations.                                                                                                                                                                                                                                                                     |                         |            | Section 5.14.2.3                                   |                           |                                                                  |   |      |
| Appendix B<br>(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 5.14.2<br>Section 5.14.3<br>Section 5.14.4 |                           |                                                                  |   |      |

| Adequacy Issue:           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Adequate                                                              | Inadequate | DATA ADEQUACY WORKSHEET    |                                                                  | Revision No.      | 0 | Date |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------|----------------------------|------------------------------------------------------------------|-------------------|---|------|
| Technical Area:           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Waste Management</b>                                               |            | Project: Solar Two Project |                                                                  | Technical Staff:  |   |      |
| Project Manager:          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                       |            | Docket:                    |                                                                  | Technical Senior: |   |      |
| <b>SITING REGULATIONS</b> | <b>INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>AFC SECTION NUMBER</b>                                             |            | <b>ADEQUATE YES OR NO</b>  | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b> |                   |   |      |
| Appendix B (g) (12) (A)   | A Phase I Environmental Site Assessment (ESA) for the proposed Project Site using methods prescribed by the American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase I 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 before the filing of the AFC. | Section 5.14.1.1<br>Appendix T, Phase I Environmental Site Assessment |            |                            |                                                                  |                   |   |      |
| 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.                                                                                                                                                                                                                                                                                             | Section 5.14.2.1<br>Section 5.14.2.2<br>Table 5.14-2<br>Table 5.14-3  |            |                            |                                                                  |                   |   |      |

| Adequacy Issue:            |  | Adequate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Inadequate | DATA ADEQUACY WORKSHEET                                              |                    | Revision No.                                              | 0 | Date |
|----------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------|--------------------|-----------------------------------------------------------|---|------|
| Technical Area:            |  | Waste Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | Project: Solar Two Project                                           |                    | Technical Staff:                                          |   |      |
| Project Manager:           |  | Docket:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                      |                    | Technical Senior:                                         |   |      |
| SITING REGULATIONS         |  | INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | AFC SECTION NUMBER                                                   | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |   |      |
| 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 <i>et seq.</i> , 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. |            | Section 5.14.1.3<br>Section 5.14.1.4<br>Table 5.14-1                 |                    |                                                           |   |      |
| 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.                                                                                                                                                                                                                                                       |            | Section 5.14.2.1<br>Section 5.14.2.2<br>Table 5.14-2<br>Table 5.14-3 |                    |                                                           |   |      |
| Appendix B (h) (1) (B)     |  | A discussion of any measures proposed to improve adverse site conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                               |            | Section 5.14.4                                                       |                    |                                                           |   |      |
| Appendix B (h) (1) (D) (v) |  | The waste disposal system and on-site disposal sites;                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | Section 5.14.2.1<br>Section 5.14.2.2                                 |                    |                                                           |   |      |
| 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 Project is discussed; and                                                                 |            | Section 5.14.5<br>Table 5.14-4                                       |                    |                                                           |   |      |

| Adequacy Issue:           |                                                                                                                                                                                                                                                                                                                                                                                                 | Adequate                         | Inadequate                | DATA ADEQUACY WORKSHEET                                          |  | Revision No.      | 0 | Date |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------|------------------------------------------------------------------|--|-------------------|---|------|
| Technical Area:           |                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Waste Management</b>          |                           | Project: Solar Two Project                                       |  | Technical Staff:  |   |      |
| Project Manager:          |                                                                                                                                                                                                                                                                                                                                                                                                 | Docket:                          |                           |                                                                  |  | Technical Senior: |   |      |
| <b>SITING REGULATIONS</b> | <b>INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                              | <b>AFC SECTION NUMBER</b>        | <b>ADEQUATE YES OR NO</b> | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b> |  |                   |   |      |
| Appendix B<br>(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 5.14.5.4<br>Table 5.14-4 |                           |                                                                  |  |                   |   |      |
| Appendix B<br>(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 5.14-4<br>Table 5.14-5     |                           |                                                                  |  |                   |   |      |
| Appendix B<br>(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<br>Table 5.14-6 |                           |                                                                  |  |                   |   |      |