

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: Water Resources  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Technical Staff: \_\_\_\_\_  
 Technical Senior: \_\_\_\_\_

Project: Carrizo Energy Solar Farm (CESF)  
 Docket: \_\_\_\_\_

| SITING REGULATIONS            | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER  | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|-------------------------------|---|---|--------------------|---|
| Appendix B (g) (1)            | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 5.5   |                    |   |
| Appendix B (g) (14) (A)       | All the information required to apply for the following permits, if applicable, including:  | See below   |                    |   |
| 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);   | Section 5.5.5.2.9<br>Table 5.5-5  |                    |   |
| Appendix B (g) (14) (A) (ii)  | Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;  | Section 5.5.5.1.1   |                    |   |
| Appendix B (g) (14) (A) (iii) | Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and  | Section 5.5.5.1.2<br>Table 5.5-5<br>Table 5.5-7                                     |                    |   |
| 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.   | Not applicable. There are no proposed injection wells associated with this Project. |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: Water Resources  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Technical Staff: \_\_\_\_\_  
 Technical Senior: \_\_\_\_\_

Project: Carrizo Energy Solar Farm (CESF)  
 Docket: \_\_\_\_\_

| SITING REGULATIONS            | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER  | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|-------------------------------|--|---|--------------------|---|
| Appendix B (g) (14) (B)       | 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 5.5.1<br>Figure 5.3-1<br>Figure 5.5-1<br>Figure 5.5-2<br>Figure 5.6-4 |                    |   |
| Appendix B (g) (14) (B) (i)   | Ground water bodies and related geologic structures;   | Section 5.5.1.1   |                    |   |
| Appendix B (g) (14) (B) (ii)  | Surface water bodies;  | Section 5.5.1.2   |                    |   |
| Appendix B (g) (14) (B) (iii) | Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;   | Section 5.5.1.7   |                    |   |
| Appendix B (g) (14) (B) (iv)  | Flood control facilities (existing and proposed); and  | Section 5.5.1.6<br>Section 5.5.2.3  |                    |   |
| Appendix B (g) (14) (B) (v)   | Groundwater wells within ½ mile if the project will include pumping.   | Section 5.5.1.1<br>Section 5.5.2.1  |                    |   |
| Appendix B (g) (14) (C)       | A description of the water to be used and discharged by the project. This information shall include:   | Section 5.5.2.1<br>Section 5.5.2.2  |                    |   |
| Appendix B (g) (14) (C) (i)   | Source(s) of the primary and back-up water supplies and the rationale for their selection;   | Section 5.5.2.1   |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: Water Resources  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Technical Staff: \_\_\_\_\_  
 Technical Senior: \_\_\_\_\_

Project: Carrizo Energy Solar Farm (CESF)  
 Docket: \_\_\_\_\_

| SITING REGULATIONS            | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|-------------------------------|--|------------------------------------|--------------------|---|
| Appendix B (g) (14) (C) (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); | Table 5.5-1                        |                    |   |
| 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;   | Table 5.5-3                        |                    |   |
| 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;  | Section 5.5.2.1.1<br>Figure 3.4-17 |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: Water Resources  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Technical Staff: \_\_\_\_\_  
 Technical Senior: \_\_\_\_\_

Project: Carrizo Energy Solar Farm (CESF)  
 Docket: \_\_\_\_\_

| SITING REGULATIONS           | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER   | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------------|--|--|--------------------|---|
| Appendix B (g) (14) (C) (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;                                   | Not applicable. Water supply will be from existing onsite private well.<br><br>Section 5.5.2.1 |                    |   |
| 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); | Not applicable. Water supply will be from existing onsite private well.<br><br>Section 5.5.2.1 |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: **Water Resources**  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Technical Staff: \_\_\_\_\_  
 Technical Senior: \_\_\_\_\_

Project: Carrizo Energy Solar Farm (CESF)  
 Docket: \_\_\_\_\_

| SITING REGULATIONS            | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|-------------------------------|---|------------------------------------|--------------------|---|
| Appendix B (g) (14) (C) (vii) | Provide water mass balance and heat balance diagrams for both average and maximum flows that include all process and/or ancillary water supplies and wastewater streams. Highlight any water conservation measures on the diagram and the amount that they reduce water demand; and | Figure 3.4-7<br>Figure 3.4-17      |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: Water Resources  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Technical Staff: \_\_\_\_\_  
 Technical Senior: \_\_\_\_\_

Project: Carrizo Energy Solar Farm (CESF)  
 Docket: \_\_\_\_\_

| SITING REGULATIONS             | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER   | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|--------------------------------|--|--|--------------------|---|
| Appendix B (g) (14) (C) (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> | <p>Not applicable. Industrial wastewater and contact stormwater will not be discharged.</p> <p>Section 5.5.2.2</p>                         |                    |   |
| Appendix B (g) (14) (D)        | Identify all project elements associated with stormwater drainage, including a description of the following:   | <p>Section 5.5.1.2<br/>         Section 5.5.1.3<br/>         Section 5.5.1.7<br/>         Section 5.5.2.2<br/>         Section 5.5.2.3</p> |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: Water Resources  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Technical Staff: \_\_\_\_\_  
 Technical Senior: \_\_\_\_\_

Project: Carrizo Energy Solar Farm (CESF)  
 Docket: \_\_\_\_\_

| SITING REGULATIONS            | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER                                   | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|-------------------------------|--|--|--------------------|---|
| Appendix B (g) (14) (D) (i)   | Monthly and/or seasonal precipitation and stormwater runoff and drainage patterns for the proposed site and surrounding area that may be affected by the project's construction and operation; | Section 5.5.1.3<br>Section 5.5.1.7<br>Section 5.5.2.3<br>Table 5.5-2 |                    |   |
| 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;    | Section 5.5.2.3  |                    |   |
| 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  | Section 5.5.2.3  |                    |   |
| 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 5.5.2.3<br>Section 5.5.5.3<br>Table 5.5-5                    |                    |   |
| 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:                              | Section 5.5.2<br>Section 5.5.5                                       |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: Water Resources  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Technical Staff: \_\_\_\_\_  
 Technical Senior: \_\_\_\_\_

Project: Carrizo Energy Solar Farm (CESF)  
 Docket: \_\_\_\_\_

| SITING REGULATIONS           | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------------|--|------------------------------------|--------------------|---|
| Appendix B (g) (14) (E) (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; | Section 5.5.2.1<br>Section 5.5.2.2 |                    |   |
| 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;                 | Section 5.5.1.1<br>Section 5.5.2.1 |                    |   |
| 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;  | Section 5.5.2.2                    |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: Water Resources  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Technical Staff: \_\_\_\_\_  
 Technical Senior: \_\_\_\_\_

Project: Carrizo Energy Solar Farm (CESF)  
 Docket: \_\_\_\_\_

| SITING REGULATIONS        | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER                    | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|---------------------------|---|---|--------------------|---|
| Appendix B (g) (14) (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;” | Not Applicable.                                       |                    |   |
| 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;”  | Not Applicable.<br>Section 5.5.1.4<br>Section 5.5.2.1 |                    |   |
| 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 5.5.2.3                                       |                    |   |
| Appendix B (g) (14) (vii) | All assumptions, evidence, references, and calculations used in the analysis to assess these effects.   | Section 5.5.2.3                                       |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: Water Resources  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Technical Staff: \_\_\_\_\_  
 Technical Senior: \_\_\_\_\_

Project: Carrizo Energy Solar Farm (CESF)  
 Docket: \_\_\_\_\_

| SITING REGULATIONS     | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------|--|------------------------------------|--------------------|---|
| Appendix B (i) (1) (A) | Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Section 5.5.5<br>Table 5.5-5       |                    |   |
| 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 5.5.5.5<br>Table 5.5-6     |                    |   |
| 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 5.5.5.4<br>Table 5.5-7     |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate \_\_\_\_\_  
 Technical Area: **Water Resources**  
 Project Manager: \_\_\_\_\_

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date \_\_\_\_\_  
 Project: Carrizo Energy Solar Farm (CESF) Technical Staff: \_\_\_\_\_  
 Docket: \_\_\_\_\_ Technical Senior: \_\_\_\_\_

| SITING REGULATIONS | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|--------------------|--|------------------------------------|--------------------|---|
| Appendix B (i) (3) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Section 5.5.5.5<br>Table 5.5-7     |                    |   |

*This page intentionally left blank*