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| <b>Docket Number:</b>   | 21-AFC-01                            |
| <b>Project Title:</b>   | Pecho Energy Storage Center          |
| <b>TN #:</b>            | 241075                               |
| <b>Document Title:</b>  | Staff's Data Adequacy Recommendation |
| <b>Description:</b>     | N/A                                  |
| <b>Filer:</b>           | Marichka Haws                        |
| <b>Organization:</b>    | California Energy Commission         |
| <b>Submitter Role:</b>  | Commission Staff                     |
| <b>Submission Date:</b> | 12/22/2021 6:54:18 PM                |
| <b>Docketed Date:</b>   | 12/22/2021                           |

Memorandum

To:

Chair David Hochschild  
**Date:** December 22, 2021

Vice Chair Siva Gunda  
Commissioner Karen Douglas  
Commissioner J. Andrew McAllister, Ph.D  
Commissioner Patty Monahan

**From:** Drew Bohan, Executive Director  
California Energy Commission  
715 P Street  
Sacramento, California 95814-5512

**Subject: PECHO ENERGY STORAGE CENTER, STAFF'S DATA ADEQUACY  
RECOMMENDATION (21-AFC-01)**

On November 23, 2021, Pecho LD Energy Storage, LLC, (applicant), a joint venture of Hydrostor, Inc. and Meridiam Infrastructure Partners, filed an Application for Certification (AFC) to construct and operate an advanced compressed air energy storage facility at 2284 Adobe Road in unincorporated San Luis Obispo County, just over one mile east of the City of Morro Bay. The energy storage facility would provide electricity via a new 3.4-mile transmission line (Preferred Route) to Pacific Gas and Electric Company's (PG&E) Morro Bay Switching Station. The approximately 80-acre energy storage facility would be on a 303-acre parcel zoned as agriculture (AG), currently in row cropping, and the Preferred Route for the new electric transmission line would be on land zoned as AG. Land use surrounding the facility include agricultural with allowances for supporting single-family residences, and land uses around the substation include a residential subdivision, light industrial, and mixed commercial. The area of the energy storage facility and transmission line is within the coastal zone as defined by the California Coastal Act.

The Pecho Energy Storage Center (PESC or project) would be a nominal 400-megawatt (MW), 3,200 MW-hour (MWh), advanced compressed air energy storage (A-CAES) facility capable of flexibly charging and discharging daily. PESC would provide fossil fuel-free and greenhouse gas emissions-free electricity.

PESC's major equipment would include four all-electric air compressor trains, four 100-MW air-driven power turbine generators, heat exchangers, thermal

heat storage, an underground compressed air storage cavern, an aboveground water reservoir, auxiliary facilities, and electrical generation tie line.

Public Resources Code section<sup>1</sup> 25540.6 identifies which projects are exempt from the otherwise required Notice of Intention process specified in section 25502 and are allowed to directly file an AFC. All project applications filed with the CEC in the last several decades, except for one, have qualified for the AFC process under section 25540.6(a)(1) as co-generation, natural gas-fired, or solar thermal facilities. PESC does not qualify on these grounds and so must identify another criterion under section 25540.6 that it meets to qualify for the direct-to-AFC process. Hydrogen Energy California qualified as a demonstration project under section 25540.6(a)(5), but that criterion establishes an output limit of 300 MW unless the CEC, by regulation, has authorized a greater capacity. The CEC has not authorized a greater capacity and, as proposed, PESC would exceed the 300 MW limit. Staff believes that it is possible PESC could qualify for the AFC process under section 25540.6(a)(3) as “[a] thermal powerplant which it is only technologically or economically feasible to site at or near the energy source,” but more investigation is needed. In this case, a particular subsurface geological structure is necessary that can adequately store appropriate amounts of compressed air at the correct pressure and also store and contain water. PESC would compress air into a purpose-built underground cavern in such a geological structure, using electricity from the grid, most likely off-peak, excess, or surplus electricity. The heat from the air compression process would be captured and stored in an aboveground thermal storage system. The compressed air would then be stored in the cavern under the pressure of a hydrostatic head created by an onsite, aboveground water reservoir. When electricity is needed by the grid, the compressed air would be released using the assistance of the hydrostatic head pressure, reheated using the stored thermal energy, and directed through aboveground turbine-generators to produce electricity. Staff will provide the full Commission a progress report of its investigation in its next data adequacy recommendation memorandum. Until staff reaches a definitive conclusion, staff will treat the project as appropriately filed as an AFC.

Staff has completed its data adequacy review of the AFC and determined that it does not meet all the requirements listed in California Code of Regulations, title 20, section 1704, Appendix B, for the 12-month certification process. Of the 23 technical disciplines reviewed, staff concludes the information contained in the AFC is deficient in 12 areas, which are: Air Quality, Biological Resources, Cultural Resources, Efficiency, Geological Hazards, Land Use, Project Overview, Reliability, Socioeconomics, Transmission System Design, Visual Resources, and Water Resources.

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<sup>1</sup> All subsequent citations are to the Public Resources Code unless otherwise noted.

Land use data inadequacies are noteworthy. The project site is in the coastal zone and subject to two related long-range land use plans. The two plans are the California Coastal Commission's "Designation of Coastal Zone Areas Where Construction of an Electric Power Plant Would Prevent Achievement of the Objectives of the California Coastal Act of 1976" (last adopted in 1985) and San Luis Obispo County's Local Coastal Program. Page 69 of the Coastal Commission plan designates the Chorro Valley along Highway 1 as unsuitable for power plants due to protected views in that area. It also describes the need for minimal alteration of the Morro Bay watershed, which includes the Chorro Valley area. A determination will be required by the Coastal Commission on the suitability of the site for development of a thermal power plant, as well as the project's consistency with the California Coastal Act and Local Coastal Program.

The project site is designated Prime Farmland, in agricultural production, and under The Williamson Act contract. The contract may need to be canceled by the San Luis Obispo County Board of Supervisors to allow development of the project. The Board will determine if the findings for cancellation can be met. As part of the Data Adequacy process, the applicant must discuss whether the project could potentially meet the findings required for cancellation of a Williamson Act contract.

Attached is a summary table and data adequacy worksheets for all technical disciplines. The worksheets for the areas listed above identify additional information that staff believes is necessary to fulfill the AFC data adequacy requirements. At the CEC's business meeting on January 26, 2022, staff will recommend adoption of the list of deficiencies and to not accept the AFC as complete until the additional information is supplied. If you have any questions, please call Lisa Worrall, Project Manager at (916) 661-8367.

Attachments:

Attachment A, Overview of Staff's Data Adequacy Determination

Attachment B, Staff's Data Adequacy Worksheets

ATTACHMENT A

Overview of Energy Commission Staff's Data Adequacy Determination

Pecho Energy Storage Center 21-AFC-01

| <b>Technical Area</b>              | <b>Attachment B Page Number</b> | <b>Adequate?</b> |
|------------------------------------|---------------------------------|------------------|
| AIR QUALITY .....                  | 1                               | NO               |
| ALTERNATIVES.....                  | 7                               | YES              |
| BIOLOGICAL RESOURCES.....          | 8                               | NO               |
| CULTURAL RESOURCES.....            | 19                              | NO               |
| EFFICIENCY .....                   | 27                              | NO               |
| FACILITY DESIGN.....               | 30                              | YES              |
| GEOLOGICAL HAZARDS .....           | 33                              | NO               |
| HAZARDOUS MATERIALS .....          | 36                              | YES              |
| LAND USE.....                      | 39                              | NO               |
| NOISE AND VIBRATION .....          | 45                              | YES              |
| PALEONTOLOGICAL RESOURCES .....    | 50                              | YES              |
| PROJECT OVERVIEW .....             | 53                              | NO               |
| PUBLIC HEALTH .....                | 58                              | YES              |
| RELIABILITY .....                  | 61                              | NO               |
| SOCIOECONOMICS.....                | 64                              | NO               |
| SOILS.....                         | 69                              | YES              |
| TRAFFIC AND TRANSPORTATION .....   | 71                              | YES              |
| TRANS LINE SAFETY & NUISANCE ..... | 75                              | YES              |
| TRANSMISSION SYSTEM DESIGN .....   | 77                              | NO               |
| VISUAL RESOURCES .....             | 80                              | NO               |
| WASTE MANAGEMENT .....             | 87                              | YES              |
| WATER RESOURCES .....              | 91                              | NO               |
| WORKER SAFETY .....                | 100                             | YES              |

ATTACHMENT B

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate  X   
 Technical Area:  Air Quality   
 Project Manager:  Lisa Worrall

**DATA ADEQUACY WORKSHEET**

Project:  Pecho Energy Storage Center   
 Docket:  21-AFC-01

Revision No.  0  Date  December 2021   
 Technical Staff:  Jacquelyn Record   
 Technical Senior:  Joseph Hughes

| 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 2.0<br>Section 5.1 and Air Quality<br>Appendix 5.1A | Yes                |   |
| Appendix B (g) (8) (A) | The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.  |   | No                 | Please provide a copy of the letter of completeness from the San Luis Obispo County Air Pollution Control District. |
| Appendix B (g) (8) (B) | The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.   | Appendix 5.1c<br>Section 6.7.2 Table 2                      | Yes                |   |
| Appendix B (g) (8) (C) | A description of the control technologies proposed to limit the emission of criteria pollutants.  | Appendix 5.1c<br>Section 5.1.2<br>Section 5.1.5             | Yes                |   |
| Appendix B (g) (8) (D) | A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.  | Section 2.0   | Yes                |   |
| Appendix B (g) (8) (E) | The emission rates of criteria pollutants and greenhouse gases (CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, and SF <sub>6</sub> ) from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.  | Section 5.1 Air Quality,<br>Appendix 5.1A Table 1           | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Air Quality**  
 Project Manager: Lisa Worrall

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Revision No. 0 Date December 2021  
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 Technical Senior: Joseph Hughes

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| Appendix B (g) (8) (F)(i)  | A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.  | Section 5.1<br>Section 5.1.3.2<br>Table 5.1-2<br>Section 5.1.4.3 | Yes                |   |
| Appendix B (g) (8) (F)(ii) | A description of the project's planned initial commissioning phase, which is the phase between the first firing of emissions sources and the commercial operations date, including the types and durations of equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests.  | Section 5.1,<br>Section 5.1.4.3,<br>Section 5.1.7.3              | Yes                |   |
| Appendix B (g) (8) (G)     | The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary. | Section 5.1<br>Section 5.1.2<br>Table 5.1-6                      | Yes                |   |
| Appendix B (g) (8) (H)     | One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.   | Section 5.1<br>Section 5.1.6<br>Section 5.1.7<br>Appendix 5.1D   | Yes                |   |



Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Air Quality**  
 Project Manager: Lisa Worrall

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Revision No. 0 Date December 2021  
 Technical Staff: Jacquelyn Record  
 Technical Senior: Joseph Hughes

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| Appendix B (g) (8) (H) (i)  | If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995)), which is incorporated by reference in its entirety.  | Section 5.1<br>Section 5.1.6<br>Appendix 5.1D  | Yes                |   |
| Appendix B (g) (8) (H) (ii) | The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.  | 5.1.6.1<br>Appendix 5.1D<br>Section 5.1B,<br>Appendix 5.1B Table 9 and Table 10<br>Appendix 5.1D, Figure 1 (pdf p. 90) | Yes                |   |
| Appendix B (g) (8) (I)      | An evaluation of the project's direct and cumulative air quality impacts, consisting of:   | --   | --                 |   |
| Appendix B (g) (8) (I) (i)  | A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM <sub>10</sub> ) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO <sub>x</sub> ), sulfur dioxide (SO <sub>2</sub> ), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM <sub>10</sub> ) and particulate matter less than 2.5 microns in diameter (PM <sub>2.5</sub> ) from construction-related equipment; | Section 5.1.7.1.1<br>Appendix 5.1C,<br>Section 1.0, Table 3<br>Appendix 5.1D   | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Air Quality**  
 Project Manager: Lisa Worrall

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| Appendix B (g) (8) (I) (ii)  | A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant (NO <sub>x</sub> , SO <sub>2</sub> , CO, PM <sub>10</sub> , and PM <sub>2.5</sub> ) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions; | Section 5.1.6.2.1<br>Section 5.1.7.2<br>Appendix 5.1D Section 5.0, 6.0, and 7.0. Tables 3 and 4 | Yes                       |  |
| Appendix B (g) (8) (I) (iii) | A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a 6-mile radius that have received construction permits but are not yet operational or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard; and  | Section 5.1.2 nearest source is 8.5 miles.<br>No cumulative modeling protocol was submitted.    | Yes                       |  |
| Appendix B (g) (8) (I) (iv)  | An air dispersion modeling analysis of the impacts of the initial commissioning phase emissions on state and federal ambient air quality standards for NO <sub>x</sub> , SO <sub>2</sub> , CO, PM <sub>10</sub> , and PM <sub>2.5</sub> .   | Section 5.1.6.2.1<br>Section 5.1.7.2<br>Appendix 5.1D Section 5.0, 6.0, and 7.0. Tables 3 and 4 | Yes                       |  |
| Appendix B (g) (8) (J)       | If an emission offset strategy is proposed to mitigate the project's impacts under (g)(1), provide:   | N/A   | N/A                       |  |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Air Quality**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**

Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Jacquelyn Record  
 Technical Senior: Joseph Hughes

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| Appendix B (g) (8) (J) (i)  | The quantity of offsets or emission reductions that are needed to satisfy air permitting requirements of local permitting agencies (such as the air district), state and federal oversight air agencies, and the California Energy Commission. Identify by criteria air pollutant, and if appropriate, greenhouse gas; and  | N/A                                | N/A                |   |
| Appendix B (g) (8) (J) (ii) | Potential offset sources, including location, and quantity of emission reductions;  | N/A                                | Yes                |   |
| Appendix B (g) (8) (K)      | A detailed description of the mitigation, if any, which an applicant may propose, for all projects impacts from criteria pollutants that currently exceed state or federal ambient air quality standards but are not subject to offset requirements under the district's new source review rule.  | N/A                                | Yes                |   |
| Appendix B (i) (1) (A)      | Tables that 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 5.1.8                      | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Air Quality**  
 Project Manager: Lisa Worrall

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Revision No. 0 Date December 2021  
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| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities. | Section 5.1.8.2<br>Table 5.1-14    | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Section 5.1.8.2<br>Table 5.1-14    | Yes                |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | Section 5.1.8.3<br>Section 5.1.2   | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Alternatives**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ashley Gutierrez  
 Technical Senior: Steve Kerr

| SITING REGULATIONS     | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER  | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
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| Appendix B (b) (1) (D) | A description of how the site and related facilities were selected, and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant.  | P. 6-1, Section 6.1<br>P. 6-6, Section 6.3.1  | Yes                |   |
| Appendix B (f) (1)     | A discussion of the range of reasonable alternatives to the project, or to the location of the project, including the no project alternative, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and an evaluation of the comparative merits of the alternatives. In accordance with Public Resources Code section 25540.6(b), a discussion of the applicant's site selection criteria, any alternative sites considered for the project, and the reasons why the applicant chose the proposed site. | P. 6-4, Sections 6.2 and 6.3<br>P. 6-5, Figure 6-1<br>P. 6-6, Section 6.3.2<br>P. 6-7, Section 6.3.3<br>Pp. 6-9 through 6-12, Section 6.4<br>Pp. 6-12 through 6-14, Section 6.5 | Yes                |   |
| Appendix B (f) (2)     | An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in (f)(1).  | P. 6-8, Table 6-1   | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date December 2021  
 Technical Area: **Biological Resources** Project: Pecho Energy Storage Center Technical Staff: Carol Watson  
 Project Manager: Lisa Worrall Docket: 21-AFC-01 Technical Senior: Eric Knight

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| Appendix B (g) (1)            | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.  | Site conditions in Section 5.2.1, beginning p. 5.2-2; direct, indirect, and cumulative effects Sections 5.2.2 and 5.2.3, pp. 5.2-27 to 5.2-35; measures proposed Section 5.2.4, pp. 5.2-35 to 5.2-36 | No                 | Provide missing Appendices 5.2A through 5.2C. Also provide original biological survey reports as mentioned for special status plants, animals, and habitat. Table 5.2-7 omits direct, indirect, and cumulative impacts pursuant to California Coastal Act jurisdiction, as well as appropriate mitigation for any such impacts, as well as impacts and mitigation under USACE, RWQCB, and CDFW. Also supply a table showing acreage impacts by habitat of the project site (including linears) separate from the study area (refined Tables and 5.5-2 and 5.2-5). |
| Appendix B (g) (13) (A)       | A regional overview and discussion of terrestrial and aquatic biological resources, with particular attention to sensitive biological resources within 10 miles of the project. Include a map at a scale of 1:100,000 (or other suitable scale) showing sensitive biological resource location(s) in relation to the project site and related facilities and any boundaries of a local Habitat Conservation Plan or similar open space land use plan or designation. Sensitive biological resources include: | Pp. 5.2-2 to 5.2-26; Figure 5.2-6 and 5.2-7  | No                 | Table 5.2-6 and 5.2-7 omit California Coastal Act sensitive biological resource impacts; please provide this data. Also please provide appropriate appendix for jurisdictional delineation(s)(5.2B), as well as include a figure which acknowledges and shows the local Morro Bay kangaroo rat HCP and any others within the study area, along with sensitive biological resource location(s).  |
| Appendix B (g) (13) (A) (i)   | species listed under state or federal Endangered Species Acts;   | Table 5.2-2, Table 5.2-3, Table 5.2-4  | Yes                |   |
| Appendix B (g) (13) (A) (ii)  | resources defined in the California Code of Regulations, title 20, sections 1201(d) and (u);   | N/A  | N/A                |   |
| Appendix B (g) (13) (A) (iii) | species identified as state Fully Protected;   | P. 5.2-25  | Yes                |   |
| Appendix B (g) (13) (A) (iv)  | species covered by Migratory Bird Treaty Act;  | P. 5.2-24  | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Biological Resources**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
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Revision No. 0 Date December 2021  
 Technical Staff: Carol Watson  
 Technical Senior: Eric Knight

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| Appendix B (g) (13) (A) (v)  | species and habitats identified by local, state, and federal agencies as needing protection, including but not limited to those identified by the California Natural Diversity Database, or where applicable, in Local Coastal Programs or in relevant decisions of the California Coastal Commission; and | Table 5.2-5, Sections 5.2.1.2 to 5.2.1.4, and Section 5.2.1.6 to 5.2.1.9. See also Sections 5.2.1.9.6 and 5.9.1.2.7. Maps to 5.2-1 to Figure 5.2-14 | No                 | Species and habitat protected by the California Coastal Commission were not discussed. Please provide a discussion (Section 5.2.2.2.7) (see also staff response to Appendix B (g)(1) above). Please also provide a map of wetlands #1 and #2—label completely (for example, showing acres affected per gen tie alternatives per each map insert)—and jurisdictional drainages #5-#12. (p. 5.2-32). For example, Section 5.2.1.9.2 is incomplete as it only researches a one-mile radius for golden eagle, which have home territories of 140 miles. |
| Appendix B (g) (13) (A) (vi) | fish and wildlife species that have commercial or recreational value.  | Pp. 5.2-8 through 5.2-9 discuss presence of steelhead trout alone; no other species or details are mentioned.                                       | No                 | Please provide a section (or subsection) of fish and wildlife with recreational value.  |
| Appendix B (g) (13) (B)      | Include a list of the species observed and those with a potential to occur within 1 mile of the project site and 1,000 feet from the outer edge of linear facility corridors. Maps or aerial photographs shall include:  | Appendix 5.2A is missing, detailing a summary of special status species expected. No list of observed species was found within the application.     | No                 | Provide missing Appendix 5.2A. Provide a complete list of species observed, preferably within consultant's reports (see staff response to Appendix B (g)(1) above).   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date December 2021  
 Technical Area: **Biological Resources** Project: Pecho Energy Storage Center Technical Staff: Carol Watson  
 Project Manager: Lisa Worrall Docket: 21-AFC-01 Technical Senior: Eric Knight

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| Appendix B (g) (13) (B) (i)  | Detailed maps at a scale of 1:6,000 or color aerial photographs taken at a recommended scale of 1 inch equals 500 feet (1:6,000) with a 30 percent overlap that show the proposed project site and related facilities, biological resources including, but not limited to, those found during project-related field surveys and in records from the California Natural Diversity Database, and the associated areas where biological surveys were conducted. Label the biological resources and survey areas as well as the project facilities; | Figures 5.2.-1 through 5.2-14      | No                 | Please provide maps at 1:6,000 scale of special status species observed during surveys, as well as an overall map of project-related survey locations, including all proposed alignments for linears. For example, Figure 5.2-8 only shows Cambria morning glory, whereas text says steelhead were observed.<br><br>Provide CNDDDB Figures (5.2-6 and 5.2-7) at 1:6,000 under confidential cover to avoid violation of CDFW terms and conditions. |
| Appendix B (g) (13) (B) (ii) | A depiction of the extent of the thermal plume at the surface of the water if cooling water is proposed to be discharged to a water source. Provide the location for the intake and discharge structures on an aerial photograph(s) or detailed maps. Water sources include, but are not limited to, waterways, lakes, impoundments, oceans, bays, rivers, and estuaries; and   | N/A                                | N/A                | N/A   |



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 Technical Area: **Biological Resources** Project: Pecho Energy Storage Center Technical Staff: Carol Watson  
 Project Manager: Lisa Worrall Docket: 21-AFC-01 Technical Senior: Eric Knight

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| Appendix B (g) (13) (B) (iii) | An aerial photo or wetlands delineation maps at a scale of (1:2,400) showing any potential jurisdictional and non-jurisdictional wetlands delineated out to 250 feet from the edge of disturbance if wetlands occur within 250 feet of the project site and/or related facilities that would be included with the U.S. Army Corps of Engineers Section 404 Permit application. For projects proposed to be located within the coastal zone, also provide aerial photographs or maps as described above that identify wetlands as defined by the Coastal Act. | Figures 5.2-9 through 5.2-14        | No                 | Please supply missing appendices 5.2A through 5.2C, as well as sensitive habitat pursuant to Coastal Act jurisdiction. Clarify if "drainage" as marked on maps consists of jurisdictional drainages (Figures 5.2-9 through 5.2-14). Please provide maps at 1:2,400. |
| Appendix B (g) (13) (C)       | A discussion of the biological resources at the proposed project site and related facilities. Related facilities include, but are not limited to, laydown and parking areas, gas and water supply pipelines, transmission lines, and roads. The discussion shall address the distribution of vegetation community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and other appropriate biological resources including the following:  | Section 5.2.1, pp. 5.2.-2 to 5.2-35 | Yes                |   |
| Appendix B (g) (13) (C) (i)   | A list of all the species observed;  |                                     | No                 | Please provide a list of all species observed.  |
| Appendix B (g) (13) (C) (ii)  | A list of sensitive species and habitats with a potential to occur (defined in (A) above); and   | Pp. 5.2-4 through 5.2-10            | No                 | Please provide missing Appendix 5.2A.   |

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| Appendix B (g) (13) (C) (iii) | If cooling water is taken directly from or discharged to a surface water feature source, include a description of the intake structure, screens, water volume, intake velocity hydraulic zone field of influence, and the thermal plume dispersion area as depicted in response to B(ii) above. Describe the thermal plume size and dispersion under high and low tides, and in response to local currents and seasonal changes. Provide a discussion of the aquatic habitats, biological resources, and critical life stages found in these affected waters. For repower projects that anticipate no change in cooling water flow, this information shall be provided in the form of the most recent federal Clean Water Act 316(a) and (b) studies of entrainment and impingement impacts that has been completed within the last 5 years. For new projects or repower projects proposing to use once-through cooling and anticipating an increase in cooling water flow, provide a complete impingement and entrainment analysis per guidance in (D)(ii), below. | N/A                                | N/A                |   |

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| Appendix B (g) (13) (D)     | A description and results of all field studies and seasonal surveys used to provide biological baseline information about the project site and associated facilities. Include copies of the California Natural Diversity Database records and field survey forms completed by the applicant's biologist(s). Identify the date(s) the surveys were completed, methods used to complete the surveys, and the name(s) and qualifications of the biologists conducting the surveys. Include: | Summaries of field results lack basic information about project site and copies of CNDDDB forms and methodology used. Summaries provided (pp. 5.2-27, 5.2-28, for example) are insufficient in detail for staff to verify survey protocol methods. | No                 | Provide summaries of field results about project site and copies of CNDDDB forms and methodology used. Whole original survey reports are preferred.  |
| Appendix B (g) (13) (D) (i) | Current biological resources surveys conducted using appropriate field survey protocols during the appropriate season(s). State and federal agencies with jurisdiction shall be consulted for field survey protocol guidance prior to surveys if a protocol exists;  | California Coastal Commission protocols appear to have been omitted (pp. 5.2-13 and 5.2-18).   | No                 | Please provide results of surveys per California Coastal Commission protocols. Also provide a discussion of if/why protocols were not used (such as with <i>Bombus</i> spp., burrowing owl, and kangaroo rat) for appropriate species. |

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| Appendix B (g) (13) (D) (ii)  | If cooling water is proposed to be taken directly from or discharged to a surface water feature source, seasonal aquatic resource studies and surveys shall be conducted. Aquatic resource survey data shall include, but is not limited to, fish trawls, ichthyoplankton and benthic sampling, and related temperature and water quality samples. For new projects or repower projects anticipating a change in cooling water flows, sampling protocols shall be provided to Commission staff for review and concurrence prior to the start of sampling. For repower projects not anticipating a change in cooling water flows, this information shall be provided in the form of the most recent federal Clean Water Act 316(b) impingement and entrainment impact study completed within 5 years of the AFC filing date; and | N/A  | N/A                |   |
| Appendix B (g) (13) (D) (iii) | If the project or any related facilities could impact a jurisdictional or non-jurisdictional wetland, provide completed Army Corps of Engineers wetland delineation forms or determination of wetland status pursuant to Coastal Act requirements, name(s) and qualifications of biologist(s) completing the delineation, the results of the delineation and a table showing wetland acreage amounts to be impacted.  | Table 5.2-5., Figures 5.2-9 through 5.2-14 | No                 | Provide missing Appendix 5.2B and coordinate with California Coastal Commission, as needed. |
| Appendix B (g) (13) (E)       | Impacts discussion of:  |  | Yes; but see below |   |

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| Appendix B (g) (13) (E) (i)   | all impacts (direct, indirect, and cumulative) to biological resources from project site preparation, construction activities, plant operation, maintenance, and closure. Discussion shall also address sensitive species habitat impacts from cooling tower drift and air emissions;  | Pp. 5.2-5 through 5.2-35           | Yes                |   |
| Appendix B (g) (13) (E) (ii)  | facilities that propose to take water directly from, and/or discharge water to surface water features, daytime and nighttime impacts from the intake and discharge of water during operation, water velocity at the intake screen, the intake field of influence, impingement, entrainment, and thermal discharge. Provide a discussion of the extent of the thermal plume, effluent chemicals, oxygen saturation, intake pump operations, and the volume and rate of cooling water flow at the intake and discharge location; and | N/A                                | N/A                |   |
| Appendix B (g) (13) (E) (iii) | Methods to control biofouling and chemical concentrations, and temperatures that are currently being discharged or will be discharged to receiving waters.   | N/A                                | N/A                |   |
| Appendix B (g) (13) (F)       | A discussion of all feasible mitigation measures including, but not limited to the following:  | Pp. 5.2-35 through 5.2-36          | Yes                |   |
| Appendix B (g) (13) (F) (i)   | All measures proposed to avoid and/or reduce adverse impacts to biological resources;  | Pp. 5.2-35 through 5.2-36          | Yes                |   |

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| Appendix B (g) (13) (F) (ii)  | All off-site habitat mitigation and habitat improvement or compensation, and an identification of contacts for compensation habitat and management;  | Not identified                      | No                 | The project will adversely impact habitat in an inhabited area; with mitigation uncertain. Please provide a description of viable mitigation options for-as an example- wetland habitat, California red-legged frog, and burrowing owl (this is just for example, numerous other species/habitat are potentially affected). No compensation measures were provided. Also provide appropriate agency or other contacts. |
| Appendix B (g) (13) (F) (iii) | Design features to better disperse or eliminate a thermal discharge;   | N/A                                 | N/A                |  |
| Appendix B (g) (13) (F) (iv)  | All measures proposed to avoid or minimize adverse impacts of cooling water intake. This shall include a Best Technology Available (BTA) discussion. If BTA is not being proposed, the rationale for not selecting BTA must be provided; and | N/A                                 | N/A                |  |
| Appendix B (g) (13) (F) (v)   | Educational programs to enhance employee awareness during construction and operation to protect biological resources.  | P. 5.2-35                           | Yes                |  |
| Appendix B (g) (13) (G)       | A discussion of compliance and monitoring programs to ensure the effectiveness of impact avoidance and mitigation measures incorporated into the project.  | P. 5.2-35; a WEAP was incorporated. | No                 | No other programs are proposed, including specifically for wetlands, although likely necessary, as well as federally and state listed species and habitats.  |

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| Appendix B (g) (13) (H) | Submit copies of any preliminary correspondence between the project applicant and state and federal resource agencies regarding whether federal or state permits from other agencies such as the U.S. Fish and Wildlife Service, the National Marine Fisheries Service, the U.S. Army Corps of Engineers, the California Department of Fish and Game, and the Regional Water Quality Control Board will be required for the proposed project.           |                                    | No                 | Please submit any copies of correspondence.  |
| Appendix B (i) (1) (A)  | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Table 5.2-6                        | No                 | Please include California Coastal Act. Table 5.2-6 also needs to provide page references, and a discussion of the applicability of, and conformance of, each measure to the project. |
| Appendix B (i) (1) (B)  | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.   | Table 5.2-6 and Table 5.2-7        | No                 | Please include California Coastal Commission (and other applicable agencies such as NMFS, RWQCB, and USACE).   |

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| Appendix B (i) (2) | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff. | Table 5.2-6 and Table 5.2-7        | No                 | Please provide details of specific personnel within each agency.                                      |
| Appendix B (i) (3) | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  |                                    | No                 | Please supply a timetable for Section 7 coordination and other permitting requirements such as USACE. |



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 Project Manager:  Lisa Worrall

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 Technical Staff:  C. Travis, M. Mourkas   
 Technical Senior:  Gabriel Roark

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| Appendix B (g) (1)     | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Existing site conditions: Sections 5.3.1 and 5.3.2, pp. 5.3-2 through 5.3-14<br><br>Direct, indirect, & cumulative impacts: Section 5.3.3, p. 5.3-15<br>Measures proposed: 5.3.5-5.3.5.2, pp. 5.3-16 to 5.3-18<br><br>Mitigation measures, effectiveness, and mitigation and monitoring plans: Section 5.3.5, pp. 5.3-16 through 5.3-18 | Yes<br><br>No<br><br>No | Section 5.3.3.2, Construction Impacts, defers the assessment of construction-related impacts to later cultural resource surveys; such surveys and the resulting impact analysis must be conducted prior to submitting an AFC. Discussion of maintenance impacts required.<br><br>Although Section 5.3.5 describes mitigation measures, the Cultural Resources Section of the AFC lacks an analysis of construction-related impacts. The applicant must provide an impact analysis before mitigation measures and monitoring plans can be proposed for the project. Discussion of the effectiveness of proposed mitigation measures also requires an adequate impact analysis. |
| Appendix B (g) (2) (A) | A summary of the ethnology, prehistory, and history of the region with emphasis on the area within no more than a 5-mile radius of the project location.  | Section 5.3.1, pp. 5.3-3 through 5.3-8; Confidential Appendix 5.3B, Chapter 3, pp. 17-23  | Yes                     |   |

|                                   |  |   |  |  |   |
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| <p>Appendix B<br/>(g) (2) (B)</p> | <p>The results of a literature search to identify cultural resources within an area not less than a 1-mile radius around the project site and not less than one-quarter (0.25) mile on each side of the linear facilities. Identify any cultural resources listed pursuant to ordinance by a city or county or recognized by any local historical or archaeological society or museum. Literature searches to identify the above cultural resources must be completed by, or under the direction of, individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.</p>   | <p>Records search results: Section 5.3.2, pp. 5.3-9 through 5.3-14; Confidential Appendix 5.3B, Chapter 4, pp. 25–28</p>  | <p>No</p>  | <p>Applicant provides the results of a literature search only 0.5 mile from the project site; please update the CHRIS records search to a radius of 1 mile surrounding the project site. The records search buffer for the gen-tie line routes is adequate, as it exceeds 0.25 mile.</p> |   |
|                                   |  | <p>Cultural resources listed by a city, county, local historical/archaeological society or museum: Section 5.3.2.1, pp. 5.3-11, 5.3-12; Confidential Appendix 5.3B, Chapter 4, pp. 27</p> | <p>Yes</p>   |  |   |
|                                   | <p>Copies of California Department of Parks and Recreation (DPR) 523 forms (Title 14 CCR section 4853) shall be provided for all cultural resources (ethnographic, architectural, historical, and archaeological) identified in the literature search as being 45 years or older or of exceptional importance as defined in the National Register Bulletin Guidelines, (36CFR60.4(g)). A copy of the USGS 7.5' quadrangle map of the literature search area delineating the areas of all past surveys and noting the California Historical Resources Information System (CHRIS) identifying number shall be provided. Copies also shall be provided of all technical reports whose survey coverage is wholly or partly within .25 mile of the area surveyed for the project under section (g)(2)(C), or which report on any archaeological excavations or architectural surveys within the literature search area.</p> | <p>Professionally qualified staff conducted/supervised literature searches: Section 5.3, p. 5.3-2; Appendix 5.3C</p>  | <p>Yes</p>   |  |   |
|                                   |  | <p>Copies of DPR 523 forms for all cultural resources in the literature search: Confidential Appendix 5.3B, Appendix A</p>  | <p>No</p>  |  | <p>The DPR 523 forms for P-40-001800 appear to be missing 8 pages out of 33; please obtain pages or confirm that the information center lacks them, too. Also, applicant needs to obtain DPR 523 forms for cultural resources between 0.5 and 1.0 mile of the project site.</p> |
|                                   |  | <p>Copy of USGS 7.5' map with previous studies labeled: Confidential Appendix 5.3B, Appendix A</p>  | <p>Yes</p>   |  |   |
|                                   | <p>Copies of all technical reports wholly or partially within 0.25 mile of the</p>   | <p>No</p>   | <p>Please provide copies of these studies: SL-00026, SL-00079, SL-00228, SL-00235, SL-00430, SL-00966, SL-01154, SL-01527, SL-01542, SL-01704, SL-01814, SL-01936, SL-</p> |  |   |

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 Technical Senior: Gabriel Roark

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|                    |             | <p>surveyed area: Confidential Appendix 5.3B, Appendix A</p> <p>Copies of all technical reports which report on any archaeological excavations or architectural surveys within the literature search area: Confidential Appendix 5.3B, Appendix A</p> | No                 | <p>02429, SL-02957, SL-03583, SL-03853, SL-04005, SL-04051A, SL-04088, SL-04118, SL-04265, SL-04284, SL-04297, SL-04364, SL-04456, SL-04913, SL-04597, SL-05019, SL-05242, SL-05326, SL-05453, SL-05575, SL-05605, SL-05775, SL-06076, SL-06106, SL-06255, SL-06455, SL-06462, SL-06589, SL-06632, SL-06658, SL-06702, SL-06849, SL-07028A-B, SL-007031, SL-07075, SL-07106, SL-07370, SL-07493, SL-07549;</p> <p>SL-01729 is missing p. 18 (Figure 2); SL-03235A is missing pp. 4.5-4.17, 4.19-4.20; SL-03235B is missing pp. 3.3-3.4, 4.3, 4.13, 4.23-4.26, 4.35-4.36, 4.51-4.52, 4.57-4.58, 4.61-4.62, 4.73-4.74, 4.79-4.80, 4.83-4.84, 4.87-4.88, 4.91-4.98, 4.101-4.102, 4.115-4.116, 5.3-5.4, 5.7-5.8</p> <p>Please provide copies of these reports: SL-00652, SL-02752, SL-03023, SL-3243, SL-03330, SL-03459, SL-03586, SL-04019, SL-04224, SL-04271, SL-04509, SL-04589, SL-04593, SL-04615, SL-04913, SL-05008, SL-05100, SL-05107, SL-05161, SL-05660, SL-05805, SL-06265, SL-06417, SL-06824, SL-07000A-D, SL-07073, SL-07291, SL-07382, SL-07415</p> |

|                                   |  |  |  |  |
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| <p>Appendix B<br/>(g) (2) (C)</p> | <p>The results of new surveys or surveys less than 5 years old shall be provided if survey records of the area potentially affected by the project are more than 5 years old. Surveys to identify new cultural resources must be completed by (or under the direction of) individuals who meet the Secretary of the Interior’s Professional Standards for the technical area addressed.</p> <p>New pedestrian archaeological surveys shall be conducted inclusive of the project site and project linear facility routes, extending to no less than 200’ around the project site, substations and staging areas, and to no less than 50’ to either side of the right-of-way of project linear facility routes. New historic architecture field surveys in rural areas shall be conducted inclusive of the project site and the project linear facility routes, extending no less than .5 mile out from the proposed plant site and from the routes of all above-ground linear facilities. New historic architecture field surveys in urban and suburban areas shall be conducted inclusive of the project site, extending no less than one parcel’s distance from all proposed plant site boundaries. New historic architecture field reconnaissance (“windshield survey”) in urban and suburban areas shall be conducted along the routes of all linear facilities to identify, inventory, and characterize structures and districts that appear to be older than 45 years or that are exceptionally significant, whatever their age.</p> | <p>Results of new surveys:<br/>Section 5.3.2, pp. 5.3-9, 5.3-14; Confidential Appendix 5.3B, pp. 31–41</p> <p>Qualified individuals conducted/oversaw the survey: Section 5.3, pp. 5.3-2; Confidential Appendix 5.3B, pp. 7; Appendix 5.3C</p> <p>New pedestrian archaeological surveys:<br/>Section 5.3.2.2, pp. 5.3-14; Confidential Appendix 5.3B, pp. 1, 25, 31–41</p> <p>New historic architecture field surveys: Section 5.3.2.3, pp. 5.3–14; Confidential Appendix 5.3B, p. 43</p> <p>New historic architecture field reconnaissance (“windshield survey”): Confidential Appendix 5.3B, pp. 43–45</p> | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p> | <p>If the applicant has acquired property access to unsurveyed areas since filing the AFC, please provide the results of new surveys or surveys less than 5 years old for the portions of gen-tie lines that applicant has not yet surveyed, as well as for the areas where the applicant proposes to park construction equipment, build access roads, install buried pipeline to State Route 1, laydown areas, and temporarily store excavated soil. If property access remains restricted, please identify the locations, describe attempts to obtain access, and provide a schedule for completing the surveys</p> <p>The areas that the applicant surveyed so far conform to Appendix B requirements. Please survey and document the results for these project features: buried pipeline to State Route 1, temporary topsoil storage areas, unsurveyed portions of gen-tie lines, temporary parking and construction laydown, and access roads to project site (inclusive of bridge improvement areas, if applicable). See above concerning access issues.</p> <p>Please conduct a new historic architecture field survey extending no less than 0.5 mile out from the proposed plant site and from the route of all above ground linear facilities in rural areas. Please record historic structures like State Route 1.</p> <p>Although the desktop analysis provided is a useful supplement to historic architecture field reconnaissance, it only captures build dates and does not currently fulfill all the purposes of a “windshield survey.” There is also no indication</p> |
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 Technical Senior: Gabriel Roark

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|                                     | <p>A technical report of the results of the new surveys, conforming to the Archaeological Resource Management Report format (CA Office of Historic Preservation Feb 1990), which is incorporated by reference in its entirety, shall be separately provided and submitted (under confidential cover if archaeological site locations are included).</p>   | <p>Confidential Appendix 5.3B</p>  | <p>No</p>          | <p>that it adequately captures potential historic structures (other than residential and commercial buildings) that may be more difficult to identify using only historic aerial photographs and accessor data.</p> <p>Please update the technical report with keywords and the total area surveyed (project site and gen-tie lines) per the ARMR (pp. 5–6). Also provide a research design (currently missing from the technical report), per ARMR pp. 9–10, with special attention to identifying buried archaeological resources ahead of construction. The updated technical report shall also cover the surveys required in the previous row.</p> |
| <p>Appendix B (g) (2) (C) cont.</p> | <p>Information included in the technical report shall also be provided in the Application for Certification, except that confidential information (archaeological sites or areas of religious significance) shall be submitted under a request for confidentiality pursuant to California Code of Regulations, title 20, section 2501 et seq. At a minimum, the technical report shall include:</p> | <p>Section 3.5</p>                 | <p>Yes</p>         |  |

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 Technical Area: **Cultural Resources**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: C. Travis, M. Mourkas  
 Technical Senior: Gabriel Roark

| <b>SITING REGULATIONS</b>    | <b>INFORMATION</b>   | <b>AFC PAGE NUMBER AND SECTION NUMBER</b>   | <b>ADEQUATE YES OR NO</b> | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b>   |
|------------------------------|--|---|---------------------------|--|
| Appendix B (g) (2) (C) (i)   | The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);   | Summary from Appendix B (g)(2)(A): Confidential Appendix 5.3B, pp.17–23<br><br>Literature search results from Appendix B (g)(2)(B): Confidential Appendix 5.3B, pp. 25–28 | Yes<br><br>Yes            |  |
| Appendix B (g) (2) (C) (ii)  | The survey procedures and methodology used to identify cultural resources and a discussion of the resources identified by the survey;  | Procedures and methodology: pp. 31–32, 43.<br>Results: pp. 31–32, 43  | No                        | Please provide a historic architecture field survey and provide a discussion of its methodology and results. |
| Appendix B (g) (2) (C) (iii) | Copies of all new and updated DPR 523(A) forms. If a cultural resource may be impacted by the project, also include the appropriate DPR 523 detail form for each such resource;  |   | No                        | Please provide new and updated DPR 523 forms for resources that may be impacted.                             |
| Appendix B (g) (2) (C) (iv)  | A map at a scale of 1:24,000 U.S. Geological Survey quadrangle depicting the locations of all previously known and newly identified cultural resources compiled through the research required by Appendix B (g)(2)(B) and Appendix B (g)(2)(C) (ii); and | Confidential Appendix 5.3B, Appendix A  | No                        | Newly identified cultural resources need to be mapped.   |
| Appendix B (g) (2) (C) (v)   | The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report.  | Confidential Appendix 5.3B, p. 7  | Yes                       |  |



Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Cultural Resources**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: C. Travis, M. Mourkas  
 Technical Senior: Gabriel Roark

| <b>SITING REGULATIONS</b> | <b>INFORMATION</b>  | <b>AFC PAGE NUMBER AND SECTION NUMBER</b> | <b>ADEQUATE YES OR NO</b> | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b>                          |
|---------------------------|---|---|---------------------------|---|
| Appendix B (i) (1) (A)    | Tables that 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 5.3.6, pp. 5.3-18 to 5.3-20       | Yes                       | Page numbers are not provided in the tables but the section numbering is specific enough. |
| Appendix B (i) (1) (B)    | Tables that 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 5.3.8, p. 5.3-22                  | Yes                       |   |
| Appendix B (i) (2)        | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Section 5.3.7, p. 5.3-22                  | Yes                       |   |
| Appendix B (i) (3)        | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | Section 5.3.8, p. 5.3-22                  | Yes                       |   |



Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date December 2021  
 Technical Area: **Efficiency** Project: Pecho Energy Storage Center Technical Staff: Ken Salyphone  
 Project Manager: Lisa Worrall Docket: 21-AFC-01 Technical Senior: Shahab Khoshmashrab

| SITING REGULATIONS     | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER   | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS   |
|------------------------|---|--|--------------------|---|
| Appendix B (g) (1)     | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 1.3<br>Section 2.1<br>Section 2.1.7<br>Section 4.0   | Yes                |   |
| Appendix B (h) (4) (A) | Heat and mass balance diagrams for design conditions for each mode of operation.  | Section 2.1.2 – 2.1.14.6<br>Appendix 2 C   | No                 | <ol style="list-style-type: none"> <li>1. Appendix 2 C (Heat and mass balance diagram) is incomplete. Missing power consumption data for equipment as specified in tables and figures (that is, Charge Cycle, Discharge Cycle).</li> <li>2. Source of power for the heat exchanger(s) is electric heater. How much power do the heat exchangers need to operate?</li> </ol> |
| Appendix B (h) (4) (B) | Annual fuel consumption in BTUs for each mode of operation, including hot restarts and cold starts.   | Section 2.1.3<br>Section 2.1.4<br>Section 2.1.5<br>Section 2.1.6<br>Section 5.1.3.2<br>Table 5.1-2 | Yes                |   |
| Appendix B (h) (4) (C) | Annual net electrical energy produced in MWh for each mode of operation including starts and shutdowns.   | Section 1.5<br>Section 2.0<br>Section 2.1.4<br>Section 2.1.5<br>Section 2.1.6                      | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date December 2021  
 Technical Area: **Efficiency** Project: Pecho Energy Storage Center Technical Staff: Ken Salyphone  
 Project Manager: Lisa Worrall Docket: 21-AFC-01 Technical Senior: Shahab Khoshmashrab

| SITING REGULATIONS     | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER                             | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------|---|--|--------------------|---|
| Appendix B (h) (4) (D) | Number of hours the plant will be operated in each design condition in each year.   | Section 1.5<br>Section 2.1.4<br>Section 5.1.3.2<br>Table 5.1-2 | Yes                |   |
| Appendix B (h) (4) (E) | If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards.   | N/A  |                    |   |
| Appendix B (h) (4) (F) | A discussion of alternative generating technologies available for the project, including the projected efficiency of each, and an explanation why the chosen equipment was selected over these alternatives.  | Section 6.0  | Yes                |   |
| Appendix B (i) (1) (A) | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | N/A  |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date December 2021  
 Technical Area: **Efficiency** Project: Pecho Energy Storage Center Technical Staff: Ken Salyphone  
 Project Manager: Lisa Worrall Docket: 21-AFC-01 Technical Senior: Shahab Khoshmashrab

| SITING REGULATIONS     | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------|--|------------------------------------|--------------------|---|
| Appendix B (i) (1) (B) | Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities. | N/A                                |                    |   |
| 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 provide the name of the official who will serve as a contact person for Commission staff.  | N/A                                |                    |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.   | N/A                                |                    |   |

Adequacy Issue: Adequate  X  Inadequate \_\_\_\_\_  
 Technical Area:  Facility Design   
 Project Manager:  Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project:  Pecho Energy Storage Center   
 Docket:  21-AFC-01

Revision No.  0  Date  December 2021   
 Technical Staff:  Ken Salyphone   
 Technical Senior:  Shahab Khoshmashrab

| SITING REGULATIONS          | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER  | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|-----------------------------|--|---|--------------------|---|
| Appendix B (h) (1) (A)      | A description of the site conditions and investigations or studies conducted to determine the site conditions used as the basis for developing design criteria. The descriptions shall include, but not be limited to, seismic and other geologic hazards, adverse conditions that could affect the project's foundation, adverse meteorological and climatic conditions, and flooding hazards, if applicable. | Section 1.2<br>Section 1.4<br>Section 1.5<br>Section 2.0<br>Section 5.0<br>Figures 2-1 to 2-6 | Yes                |   |
| Appendix B (h) (1) (B)      | A discussion of any measures proposed to improve adverse site conditions.  | N/A   |                    |   |
| Appendix B (h) (1) (C)      | A description of the proposed foundation types, design criteria (including derivation), analytical techniques, assumptions, loading conditions, and loading combinations to be used in the design of facility structures and major mechanical and electrical equipment.  | Section 1.3<br>Section 2.2<br>Section 5.4<br>Section 5.6<br>Section 5.11<br>Appendix 2A       | Yes                |   |
| Appendix B (h) (1) (D)      | For each of the following facilities or systems, provide a description including drawings, dimensions, surface-area requirements, typical operating data, and performance and design criteria for protection from impacts due to adverse site conditions:  | Section 2.2.1<br>Appendix 2A<br>Figures 2-1 to 2-6  | Yes                |   |
| Appendix B (h) (1) (D) (i)  | The power generation system;   | Section 1.3<br>Section 2.1<br>Figure 2-3  | Yes                |   |
| Appendix B (h) (1) (D) (ii) | The heat dissipation system;   | Section 1.2<br>Section 2.1.9  | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Facility Design**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ken Salyphone  
 Technical Senior: Shahab Khoshmashrab

| <b>SITING REGULATIONS</b>     | <b>INFORMATION</b>  | <b>AFC PAGE NUMBER AND SECTION NUMBER</b>    | <b>ADEQUATE YES OR NO</b> | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b> |
|-------------------------------|---|--|---------------------------|--|
| Appendix B (h) (1) (D) (iii)  | The cooling water supply system, and, where applicable, pre-plant treatment procedures;   | Section 1.1<br>Section 1.5<br>Section 2.0    | Yes                       |  |
| Appendix B (h) (1) (D) (iv)   | The atmospheric emission control system;  | Section 5.1                                  | Yes                       |  |
| Appendix B (h) (1) (D) (v)    | The waste disposal system and on-site disposal sites;   | Section 2.1.16<br>Section 5.14               | Yes                       |  |
| Appendix B (h) (1) (D) (vi)   | The noise emission abatement system;  | Section 5.7                                  | Yes                       |  |
| Appendix B (h) (1) (D) (vii)  | The geothermal resource conveyance and re-injection lines (if applicable);  | N/A  |                           |  |
| Appendix B (h) (1) (D) (viii) | Switchyards/transformer systems; and  | Section 1.3<br>Section 2.1.14<br>Section 3.0 | Yes                       |  |
| Appendix B (h) (1) (D) (ix)   | Other significant facilities, structures, or system components proposed by the applicant.   | Section 1.3<br>Section 2.1<br>Appendix 2A    | Yes                       |  |
| Appendix B (i) (1) (A)        | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Section 3.4                                  | Yes                       |  |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Facility Design**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ken Salyphone  
 Technical Senior: Shahab Khoshmashrab

| SITING REGULATIONS     | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
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| Appendix B (i) (1) (B) | Tables that identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities. | Section 3.4                        | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.  | N/A                                |                    |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.   | N/A                                |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Geological Hazards**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Garry Maurath  
 Technical Senior: Shahab Khoshmashrab

| 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 5.4 - Geological Hazards and Resources pp. 5.4-1 through 5.4-17<br>Section 5.8 - Paleontological Resources pp. 5.8-4 through 5.8-9<br>Section 5.11 – Soils; pp. 5.11-1 through 5.11-10 | Yes                |   |
| Appendix B (g) (17) (A) | A summary of the geology, seismicity, and geologic resources of the project site and related facilities, including linear facilities.  | Section 5.4 - Geological Hazards and Resources<br>Subsection 5.4.1.1 – Regional Geology; pp. 5.4-1 through 5.4-3<br>Subsection 5.4.2.3 – Geological Resources p. 5.4-16                        | Yes                |   |
| Appendix B (g) (17) (B) | A map at a scale of 1:24,000 and description of all recognized stratigraphic units, geologic structures, and geomorphic features within two (2) miles of the project site and along proposed facilities. Include an analysis of the likelihood of ground rupture, seismic shaking, mass wasting and slope stability, liquefaction, subsidence, tsunami runup, and expansion or collapse of soil structures at the plant site. Describe known geologic hazards along or crossing linear facilities. | Section 5.4 - Geological Hazards and Resources pp. 5.4-1 through 5.4-17<br>Section 5.8 - Paleontological Resources pp. 5.8-4 through 5.8-9<br>Section 5.11 – Soils; pp. 5.11-1 through 5.11-10 | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date December 2021  
 Technical Area: **Geological Hazards** Project: Pecho Energy Storage Center Technical Staff: Garry Maurath  
 Project Manager: Lisa Worrall Docket: 21-AFC-01 Technical Senior: Shahab Khoshmashrab

| <b>SITING REGULATIONS</b> | <b>INFORMATION</b>  | <b>AFC PAGE NUMBER AND SECTION NUMBER</b>   | <b>ADEQUATE YES OR NO</b> | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b>   |
|---------------------------|---|---|---------------------------|--|
| Appendix B (g) (17) (C)   | A map and description of geologic resources of recreational, commercial, or scientific value which may be affected by the project. Include a discussion of the techniques used to identify and evaluate these resources.  | Subsection 5.4.1.5 Geologic Resources of Recreational, Commercial, or Scientific Value; pp. 5.4-12 through 5.4-14 | Yes                       |  |
| Appendix B (i) (1) (A)    | Tables that 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 | Subsection 5.4.5 Laws, Ordinances, Regulations, and Standards; pp. 5.4-17 through 5.4-18                          | Yes                       |  |
| Appendix B (i) (1) (B)    | Tables that 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.  | Subsection 5.4.6 Agencies and Agency Contacts, and Subsection 5.4.7 Permits and Permit Schedule; p. 5.4-18        | Yes                       |  |
| Appendix B (i) (2)        | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Subsection 5.4.6 Agencies and Agency Contacts, and Subsection 5.4.7 Permits and Permit Schedule; p. 5.4-18        | No                        | Need information on contact at DSOD who will be overseeing design/construction of compensation reservoir.<br>Need information on contact for San Luis Obispo County Department of Planning and Building regarding grading and building permits |



Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Geological Hazards**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Garry Maurath  
 Technical Senior: Shahab Khoshmashrab

| <b>SITING REGULATIONS</b> | <b>INFORMATION</b>   | <b>AFC PAGE NUMBER AND SECTION NUMBER</b>               | <b>ADEQUATE YES OR NO</b> | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b> |
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| Appendix B (i) (3)        | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | Subsection 5.4.7 Permits and Permit Schedule; p. 5.4-18 | Yes                       |  |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Hazardous Materials**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Brett Fooks  
 Technical Senior: Brett Fooks

| SITING REGULATIONS      | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER                   | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|-------------------------|---|--|--------------------|---|
| Appendix B (e) (1)      | A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.  | P. 5.5-21, Section 5.5.4.4                           | Yes                |   |
| Appendix B (g) (1)      | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | P. 5.5-1, p. 5.5-17, Sections 5.5.1 and 5.5.4        | Yes                |   |
| Appendix B (g) (10) (A) | A list of all materials used or stored on-site which are hazardous or acutely hazardous, as defined in California Code of Regulations, title 22, section 66261.20 et seq., and a discussion of the toxicity of each material.   | Pp. 5.5-3 through 5.5-10, Tables 5.5-1 through 5.5-4 | Yes                |   |
| Appendix B (g) (10) (B) | A map at a scale of 1:24,000 depicting the location of schools, hospitals, daycare facilities, emergency response facilities and long-term health care facilities, within the area potentially affected by any release of hazardous materials.  | P. 5.5-14, Section 5.5.2.5 & Figure 5.5-1            | Yes                |   |
| Appendix B (g) (10) (C) | A discussion of the storage and handling system for each hazardous material used or stored at the site.   | P. 5.5-12, Section 5.5.2.3                           | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Hazardous Materials**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**

Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Brett Fooks  
 Technical Senior: Brett Fooks

| SITING REGULATIONS      | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER     | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|-------------------------|---|--|--------------------|---|
| Appendix B (g) (10) (D) | The protocol that will be used in modeling potential consequences of accidental releases that could result in offsite impacts. Identify the model(s) to be used, a description of all input assumptions, including meteorological conditions. The results of the modeling analysis can be submitted after the AFC is complete.  | P. 5.5-19, Section 5.5.4.2.1.1         | Yes                |   |
| Appendix B (g) (10) (E) | A discussion of whether a risk management plan (Health and Safety Code section 25531 et seq.) will be required, and if so, the requirements that will likely be incorporated into the plan.   | P. 5.5-13, Section 5.5.2.3.2           | Yes                |   |
| Appendix B (g) (10) (F) | A discussion of measures proposed to reduce the risk of any release of hazardous materials.   | P. 5.5-13, Section 5.5.2.4             | Yes                |   |
| Appendix B (g) (10) (G) | A discussion of the fire and explosion risks associated with the project.   | P. 5.5-13, Section 5.5.2.4.1           | Yes                |   |
| Appendix B (i) (1) (A)  | Tables that 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 | Pp. 5.5-22 through 5.5-25, Table 5.5-5 | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Hazardous Materials**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Brett Fooks  
 Technical Senior: Brett Fooks

| SITING REGULATIONS     | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
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| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities. | P. 5.5-31, Table 5.5-7             | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | P. 5.5-31, Table 5.5-6             | Yes                |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | P. 5.5-31, Table 5.5-7             | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date December 2021  
 Technical Area: **Land Use** Project: Pecho Energy Storage Center Technical Staff: Andrea Koch  
 Project Manager: Lisa Worrall Docket: 21-AFC-01 Technical Senior: Steven Kerr

| <b>SITING REGULATIONS</b>  | <b>INFORMATION</b>  | <b>AFC PAGE NUMBER AND SECTION NUMBER</b>   | <b>ADEQUATE YES OR NO</b> | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b>   |
|----------------------------|---|---|---------------------------|--|
| Appendix B (g) (1)         | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | P. 1-5, Section 1.2;<br>P. 5-6-5, Section 5.6.1.1;<br>Pp. 5-6-18 to 5-6-26,<br>Sections 5.6.2 to 5.6.4  | No                        | The Land Use section states that no mitigation measures would be required. However, regardless of changes the County would make to their land use plans, the project would remove agricultural land. Please provide proposed mitigation measures for this removal. |
| Appendix B (g) (3) (A)     | A discussion of existing land uses and current zoning at the site, land uses and land use patterns within one mile of the proposed site and within one-quarter mile of any project-related linear facilities. Include:  | P. 1-5, Section 1.2;<br>Pp. 5-6-5 to 5-6-9, Section 5.6.1.1;<br>Pp. 5-6-8, Section 5.6.1.1.1;<br>Pp. 5-6-9 to 5-6-14, Section 5.6.1.2;<br>Pp. 5-6-14 to 5-6-15, Section 5.6.1.3;<br>Pp. 5-6-15 to 5-6-17, Section 5.6.1.4;<br>Pp. 5-6-17, Section 5.6.1.5 | Yes                       |  |
| Appendix B (g) (3) (A) (i) | An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;   | P. 5-6-5 to 5-6-9, Section 5.6.1.1;<br>Pp. 5-6-9 to 5-6-14, Section 5.6.1.2   | Yes                       |  |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Land Use**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Andrea Koch  
 Technical Senior: Steven Kerr

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|------------------------------|--|---|---------------------------|--|
| Appendix B (g) (3) (A) (ii)  | A discussion of any recent or proposed zone changes and/or general plan amendments; noticed by an elected or appointed board, commission, or similar entity at the state or local level;                             | P. 5-6-18, Section 5.6.1.7                | Yes                       |  |
| Appendix B (g) (3) (A) (iii) | Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and | P. 5-6-18, Section 5.6.1.8                | Yes                       |  |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Land Use**  
 Project Manager: Lisa Worrall

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| Appendix B (g) (3) (A) (iv) | Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated. | P. 5-6-6, Figure 5.6-3; p. 5-6-7, Figure 5.6-4; p. 5-6-11, Figure 5.6-5 | No                 | <ol style="list-style-type: none"> <li>1. On all Land Use figures, please show the jurisdictional boundaries (City of Morro Bay, County of San Luis Obispo).</li> <li>2. Please include a project figure showing the relation of the Coastal Zone/Local Coastal Plan boundaries to the areas around the project site and the linears.</li> <li>3. Page 5-6-15 of the AFC refers to Land Use Figure 5.6.2 as showing zoning designations in the vicinity of the project site and linears, but it does not. Please either revise this figure to show the zoning designations or create another figure to show the zoning designations.</li> <li>4. Please include a project figure showing an overlay of the Estero Area Plan.</li> <li>5. Land Use Figure 5.6.5 shows two farmland categories called "Farmland of Local". Please distinguish between the two (Farmland of Local Importance vs. Farmland of Local Potential).</li> </ol> |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Land Use**  
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| Appendix B (g) (3) (B) | A discussion of the compatibility of the proposed project with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agencies. The discussion shall identify the need, if any, for land use decisions by another public agency or as part of the commission's decision that would be necessary to make the project conform to adopted federal, state, regional, or local coastal plans, land use plans, or zoning ordinances. Examples of land use decisions include general plan amendments, zoning changes, lot line adjustments, parcel mergers, subdivision maps, Agricultural Land Conservation Act contracts cancellation, and Airport Land Use Plan consistency determinations. | Pp. 5-6-19 to 5-6-27, Sections 5.6.2.2.2 to 5.6.5.3 | No                 | <p>The California Coastal Commission has a document titled "Designation of Coastal Zone Areas Where Construction of an Electric Power Plant Would Prevent Achievement of the Objectives of the California Coastal Act of 1976" (last adopted in 1985). Page 69 designates the Chorro Valley along Highway 1 as unsuitable for power plants due to the need to protect views in that area. It also describes the need for minimal alteration of the Morro Bay watershed, which includes the Chorro Valley area. Please discuss the project's compatibility with this plan and with San Luis Obispo County's Local Coastal Program, and the planned steps to make the project consistent with these plans, if possible.</p> <p>Please also discuss whether the project could potentially meet the findings required for cancellation of a Williamson Act contract.</p> |
| Appendix B (g) (3) (C) | A discussion of the legal status of the parcel(s) on which the project is proposed. If the proposed site consists of more than one legal parcel, describe the method and timetable for merging or otherwise combining those parcels so that the proposed project, excluding linears and temporary laydown or staging area, will be located on a single legal parcel. The merger need not occur prior to a decision on the Application but must be completed prior to the start of construction.   | P. 1-5, Section 1.2                                 | Yes                |  |



Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Land Use**  
 Project Manager: Lisa Worrall

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 Technical Senior: Steven Kerr

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| Appendix B (g) (3) (D)       | A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:  | P. 5-6-11, Figure 5.6-5   | Yes                |  |
| Appendix B (g) (3) (D) (i)   | Crop types, irrigation systems, and any special cultivation practices;  | P. 5-6-11, Figure 5.6-5; p. 5-6-25, Section 5.6.2.2.4                                   | No                 | Please include crop types, irrigation systems, and any special cultivation practices for agricultural land uses found within potential routes for the interconnection transmission line.   |
| Appendix B (g) (3) (D) (ii)  | Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the California Department of Conservation; and  | P. 1-5, Section 1.2; p. 5-6-11, Figure 5.6-5; p. 5-6-25, Section 5.6.2.2.4;             | Yes                |  |
| Appendix B (g) (3) (D) (iii) | Direct, indirect, and cumulative effects on agricultural land uses. If the proposed site or related facilities are subject to an Agricultural Land Conservation contract, provide a written copy and a discussion of the status of the expiration or canceling of such contract.  | Pp. 5-6-19 to 5-6-25, Section 5.6.2.2; pp. 5-6-25 to 5-6-26, Section 5.6.3 to 5.6.5.2.2 | No                 | Please provide a copy of the Williamson Act contract for the site and any updates on the status of the contract. Provide a discussion of if related facilities, including the potential routes for the interconnection transmission line, are subject to Agricultural Land Conservation contracts, including copies and status of the contracts. |
| Appendix B (i) (1) (A)       | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | P. 5-6-20, Table 5.6-4  | Yes                |  |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Land Use**  
 Project Manager: Lisa Worrall

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 Technical Senior: Steven Kerr

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| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities. | P. 5-6-27, Table 5.6-5             | Yes                |  |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | P. 5-6-28, Table 5.6-6             | Yes                |  |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | P. 5-6-28, Section 5.6.7           | No                 | Please provide a discussion of any steps the applicant has taken or plans to take to make the project as consistent as possible with the Local Coastal Plan, the 1985 "Designation of Coastal Zone Areas Where Construction of an Electric Power Plant Would Prevent Achievement of the Objectives of the California Coastal Act of 1976", land use designations and zoning, and the Williamson Act. Please provide a schedule of necessary actions. |

Adequacy Issue: Adequate  X  Inadequate \_\_\_\_\_  
 Technical Area:  Noise and Vibration   
 Project Manager:  Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project:  Pecho Energy Storage Center   
 Docket:  21-AFC-01

Revision No.  0  Date  December 2021   
 Technical Staff:  Ken Salyphone   
 Technical Senior:  Shahab Khoshmashrab

| <b>SITING REGULATIONS</b> | <b>INFORMATION</b>   | <b>AFC PAGE NUMBER AND SECTION NUMBER</b>  | <b>ADEQUATE YES OR NO</b> | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b> |
|---------------------------|--|--|---------------------------|--|
| 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 5.7.2 – Affected Environment<br>Section 5.7.3 – Long-Term Monitoring<br>Section 5.7.4 – Short-Term Monitoring<br>Section 5.7.5 – Construction Impacts<br>Section 5.7.7 – Mitigation Measures | Yes                       |  |
| Appendix B (g) (4) (A)    | A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area potentially impacted by the proposed project is that area where, during either construction or operation, there is a potential increase of 5 dB(A) or more, over existing background levels. | Section 5.6 – Land Use<br>Section 5.7.2.2 – Ambient Noise Survey<br>Figure 5.7-1   | Yes                       |  |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Noise and Vibration**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ken Salyphone  
 Technical Senior: Shahab Khoshmashrab

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|---------------------------|---|---|---------------------------|--|
| Appendix B (g) (4) (B)    | A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for a lesser duration at the applicant's discretion, preferably during the same 25-hour period. The results of the noise level measurements shall be reported as hourly averages in Leq (equivalent sound or noise level), Ldn (daynight sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L10, L50, and L90 values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported in units of dB(A). | Section 5.7.2 – Affected Environment<br>Section 5.7.2.2 – Ambient Noise Survey<br>Section 5.7.3 – Long-Term Monitoring<br>Section 5.7.4 – Short-Term Monitoring<br>Table 5.7-4, 5.7-5 – Noise data from surveys | Yes                       |  |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Noise and Vibration**  
 Project Manager: Lisa Worrall

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| Appendix B (g) (4) (C) | A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.   | Section 5.7.5 – Environmental Noise Analysis<br>Section 5.7.5.2.3 – Construction Modeling Results<br>Section 5.7.5.3.3 – Plant Operational Noise Modeling<br>Table 5.7-7 Construction Noise Source data<br>Table 5.7-10 Operations Noise Source data            | Yes                |   |
| Appendix B (g) (4) (D) | An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project. | Section 5.7.5 – Environmental Analysis<br>Section 5.7.5.2 – Construction Impacts<br>Section 5.7.5.2.3 – Modeling Results<br>Section 5.7.5.3 – Operational Impacts<br>Section 5.7.5.3.3 – Plant Operational Noise Modeling<br>Table 5.7-7, 5.7-8<br>Figure 5.7-3 | Yes                |   |

Adequacy Issue: Adequate  X  Inadequate \_\_\_\_\_  
 Technical Area:  Noise and Vibration   
 Project Manager:  Lisa Worrall

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 Technical Senior:  Shahab Khoshmashrab

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| Appendix B (g) (4) (E) | An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.  | Section 5.7.5.2.5 – Worker Exposure to Noise<br>Section 5.7.5.3.1 – Worker Exposure<br>Figure 5.7-3<br>Figure 5.7- 4<br>Tables 5.7-8, 5.7-10, 5.7-12   | Yes                |   |
| Appendix B (g) (4) (F) | The audible noise from existing switchyards and overhead transmission lines that would be affected by the project and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines.  | Section 3.3.2 – Electrical Effects<br>Section 3.3.2.2 – Audible Noise<br>Section 3.3.2.3 – Audible Noise<br>Section 5.7.4 – Short-Term Monitoring<br>Section 5.7.5.3.2 – Transmission Line and Switchyard Noise Levels | Yes                |   |
| Appendix B (i) (1) (A) | Tables that 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 5.7.8 - LORS<br>Table 5.7-13   | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Noise and Vibration**  
 Project Manager: Lisa Worrall

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Revision No. 0 Date December 2021  
 Technical Staff: Ken Salyphone  
 Technical Senior: Shahab Khoshmashrab

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| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities. | Section 5.7.8 – LORS<br>Table 5.7-13 | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Section 5.7.9 – Agencies             | Yes                |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | N/A                                  |                    |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Paleontological Resources**  
 Project Manager: Lisa Worrall

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 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Garry Maurath  
 Technical Senior: Shahab Khoshmashrab

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| Appendix B (g) (1)      | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.                                  | Section 5.4 - Geological Hazards and Resources pp. 5.4-1 through 5.4-17<br>Section 5.8 - Paleontological Resources pp. 5.8-1 through 5.8-15<br>Section 5.11 – Soils; pp. 5.11-1 through 5.11-10 | Yes                |   |
| Appendix B (g) (16) (A) | Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The size of the paleontological study area may vary depending on the depositional history of the region.   | Section 5.4 - Geological Hazards and Resources pp. 5.4-1 through 5.4-17<br>Section 5.8 - Paleontological Resources pp. 5.8-1 through 5.8-9<br>Section 5.11 – Soils; pp. 5.11-1 through 5.11-10  | Yes                |   |
| Appendix B (g) (16) (B) | A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontological localities or other paleontological resources within or adjacent to the project. Include a discussion of sensitivity for each geologic unit identified on the most recent geologic map at a scale of 1:24,000. Provide rationale as to why the sensitivity was assigned. | Subsection 5.8.1.2.5 Paleontological Sensitivity of the PESC Right-of-Way; pp. 5.8-11 through 5.8-14<br>Subsection 5.8.1.2.3 Geologic Units; pp. 5.8-5 through 5.8-11                           | Yes                |   |



Adequacy Issue: Adequate   X   Inadequate \_\_\_\_\_  
 Technical Area:   Paleontological Resources    
 Project Manager:   Lisa Worrall  

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 Project:   Pecho Energy Storage Center    
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 Technical Staff:   Garry Maurath    
 Technical Senior:   Shahab Khoshmashrab  

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| Appendix B (g) (16) (C)   | A summary of all local museums, literature searches and field surveys used to provide information about paleontological resources in the project area described in (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys.  | Subsection 5.8.1.2.4 Results of the Records Search and Literature Review; pp. 5.8-10 through 5.8-11  | Yes                       | References were provided with sufficient detail that names can be derived as needed.  |
| Appendix B (g) (16) (D)   | Information on the specific location of known palaeontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, showing occurrences of fossil finds, if known, within a 1-mile radius of the project and related facilities shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to California Code of Regulations, title 20, section 2501 et seq. | Subsection 5.8.1.2.4 Results of the Records Search and Literature Review; pp. 5.8-10 and 5.8-11<br><br>Confidential records not reviewed, but information contained in AFC is sufficiently complete to process application | Yes                       | No confidential records were submitted and based on the application no significant paleontological finds have been identified within one mile of the proposed site. |
| Appendix B (g) (16) (E)   | A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known palaeontologic resources, and a set of contingency measures for mitigation of potential impacts to unknown paleontological resources.  | Section 5.8.4 Mitigation Measures; pp. 5.8-14 through 5.8-15   | Yes                       |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Paleontological Resources**  
 Project Manager: Lisa Worrall

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| Appendix B (i) (1) (A) | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Section 5.8.5 Laws, Ordinances, Regulations, and Standards; pp. 5.8-15 through 5.8-18   | Yes                |   |
| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.   | Section 5.8.5 Laws, Ordinances, Regulations, and Standards; pp. 5.8-15 through 5.8-18<br>Section 5.8.6 Agencies and Agency Contacts; pp. 5.8-18 | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Section 5.8.6 Agencies and Agency Contacts; p. 5.8-18   | Yes                |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | Section 5.8.7 Permits and Permit Schedule; p. 5.8-18  | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Project Overview**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

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 Technical Staff: Lisa Worrall  
 Technical Senior: Eric Knight

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| Cal. Code Regs., tit. 20, § 1704, (a) (3) (A) | Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.  | Section 5<br>5.7.1 p. 5.7-1<br>5.7.5.2.2 p. 5.7-14<br>5.7.5.3.3 p. 5. 7-21<br>5.8.1.2.1 p. 5.8-4<br>5.9.2.4 p. 5.9-10<br>5.9.2.5 p. 5.9-12<br>5.13.3.1 p. 5.13-7<br>5.13.3.1.5 p. 5.13-10 | Yes                |   |
| Cal. Code Regs., tit. 20, § 1704, (a) (3) (B) | Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and | Section 5   | Yes                |   |
| Cal. Code Regs., tit. 20, § 1704, (a) (3) (C) | A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference;  | Section 5.1 - 5.16  | Yes                |   |
| Cal. Code Regs., tit. 20, § 1704, (a) (4)     | Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.   | Table of Contents and Appendix 1C   | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Project Overview**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Lisa Worrall  
 Technical Senior: Eric Knight

| SITING REGULATIONS     | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER  | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------|--|---|--------------------|---|
| Appendix B (a) (1) (A) | A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply routes and facilities, water supply routes and facilities, pollution control systems, and other general characteristics. | Section 1.0, p. 1-1<br>Section 1.3, p. 1-5<br>Section 2.1.15, p. 2-18<br>Section 5.5.1.2.2, p. 5.5-1<br>Section 5.1.2, p. 5.1-2 | Yes                |   |
| Appendix B (a) (1) (B) | Identification of the location of the proposed site and related facilities by section, township, range, county and assessor's parcel numbers.  | Section 1.2, p. 1-5   | Yes                |   |
| Appendix B (a) (1) (C) | A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.   | Section 1.2, p. 1-5;<br>Figure 1-3, Figure 1-4  | Yes                |   |
| Appendix B (a) (1) (D) | A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.  | Figure 1-1; Figure 1-2  | Yes                |   |
| Appendix B (a) (1) (E) | In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.  | Appendix 1B   | Yes                |   |
| Appendix B (a) (2)     | Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.  | Section 1.7, p. 1-10  | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Project Overview**  
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| SITING REGULATIONS     | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER                                      | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS                  |
|------------------------|---|---|--------------------|--|
| Appendix B (a) (3) (A) | A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.                               | Section 1.6, p. 1-10  | Yes                |  |
| Appendix B (a) (3) (B) | A list of all owners and operators of the proposed electric transmission facilities.  | Section 1.3, p. 1-8<br>Section 2.1.14, p. 2-16<br>Section 3.2.2, p. 3-1 | No                 | No ownership information was provided for the proposed on-site switchyard. |
| Appendix B (a) (3) (C) | A description of the legal relationship between the applicant and each of the persons or entities specified in (a)(3)(A) and (B).   | Section 1.6, p. 1-10  | Yes                |  |
| Appendix B (b) (1)     | In a section entitled, "Generation Facility Description, Design, and Operation" provide:  |   |                    |  |
| Appendix B (b) (1) (A) | Maps at a scale of 1:24,000 (1" = 2000'), (or appropriate map scale agreed to by staff) along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities; | Figure 2-1<br>Figure 2-2<br>Figure 5.6-3                                | Yes                |  |
| Appendix B (b) (1) (B) | Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities to establish the accuracy of the photo simulations required in sections (a)(1)(D) and (g)(6)(F);   | Figure 2-3<br>Figure 2-4<br>Figure 2-5<br>Figure 2-6                    | Yes                |  |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
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|---------------------------|---|---|---------------------------|--|
| Appendix B (b) (1) (C)    | A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and | Section 2.0   | No                        | The California Independent System Operator's grid interconnection queue webpage shows a 108 MW battery as part of the Pecho project, also connecting to the Morro Bay Switching Station. The AFC does not provide a description of the design, construction, and operation of this project component. If PESC includes a battery component, please revise Section 2.0 accordingly, as well as all other affected sections of the AFC (e.g., environmental impact discussions). |
| Appendix B (b) (1) (D)    | A description of how the site and related facilities were selected, and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and other factors considered by the applicant.                                       | Section 6.0   | Yes                       |  |
| Appendix B (b) (2)        | In a section titled, "Transmission Lines Description, Design, and Operation" provide:   |   |                           |  |
| Appendix B (b) (2) (A)    | Maps at a scale of 1:24,000 (or appropriate map scale agreed to by staff) of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s);   | Figure 5.6-4<br>Section 5.13-20                     | Yes                       |  |
| Appendix B (b) (2) (B)    | A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.   | Appendix 5.13A, Figure 12,<br>Figure 14 & Figure 16 | Yes                       |  |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
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|---------------------------|---|---|---------------------------|--|
| Appendix B (b) (2) (C)    | A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights-of-way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. | Section 3                                 | Yes                       |  |
| Appendix B (b) (2) (D)    | A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints; and   | Section 6.4, p. 6-9                       | Yes                       |  |
| Appendix B (e) (1)        | A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.  | Section 2.3, p. 2-31                      | Yes                       |  |

Adequacy Issue: Adequate **X** Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date December 2021

Technical Area: Public Health

Project: Pecho Energy Storage Center

Technical Staff: Huei-An (Ann) Chu

Project Manager: Lisa Worrall

Docket: 21-AFC-01

Technical Senior: Joseph Hughes

| 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 2.0<br>Section 5.9   | Yes                |   |
| Appendix B (g) (9) (A) | An assessment of the potential risk to human health from the project's hazardous air emissions using the Air Resources Board Hotspots Analysis and Reporting Program (HARP) (HSC sections 44360-44366) or its successor and Approved Risk Assessment Health Values. These values should include the cancer potency values and noncancer reference exposure levels approved by the Office of Environmental Health Hazard Assessment (OEHHA Guidelines, Cal-EPA 2005). | Section 5.9.2.3, p. 5.9-6<br>Section 5.9.2.5, pp. 5.9-12 to 5.9-14 | Yes                |   |
| Appendix B (g) (9) (B) | A listing of the input data and output results, in both electronic and print formats, used to prepare the HARP health risk assessment.   | Appendix 5 9 A-F   | Yes                |   |
| Appendix B (g) (9) (C) | Identification of available health studies through the local public health department concerning the potentially affected population(s) within a six-mile radius of the proposed power plant site related to respiratory illnesses, cancers or related diseases.   | Section 5.9.1, pp. 5.9-1 to 5.9-2                                  | Yes                |   |



Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date December 2021

Technical Area: Public Health

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Technical Staff: Huei-An (Ann) Chu

Project Manager: Lisa Worrall

Docket: 21-AFC-01

Technical Senior: Joseph Hughes

| SITING REGULATIONS           | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER                       | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS   |
|------------------------------|---|--|--------------------|---|
| Appendix B (g) (9) (D)       | A map showing sensitive receptors within the area exposed to the substances identified in subsection (g)(9)(A).   | Figure 5.9-1, p. 5.9-4                                   | Yes                |   |
| Appendix B (g) (9) (E)       | For this section, the following definitions apply:  |  |                    |   |
| Appendix B (g) (9) (E) (i)   | A sensitive receptor refers to infants and children, the elderly, and the chronically ill, and any other member of the general population who is more susceptible to the effects of the exposure than the population at large;  | P. 5.9-2   | Yes                |   |
| Appendix B (g) (9) (E) (ii)  | An acute exposure is one that occurs over a time period of less than or equal to one (1) hour; and  | Section 5.9.2.1.2, p. 5.9-5<br>Section 5.9.2.2, p. 5.9-6 | Yes                |   |
| Appendix B (g) (9) (E) (iii) | A chronic exposure is one that is greater than twelve (12) percent of a lifetime of seventy (70) years.   | Section 5.9.2.1.2, p. 5.9-5                              | Yes                |   |
| Appendix B (i) (1) (A)       | Tables that 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 5.9.5, pp 5.9-22 to 5.9-24                       | Yes                | Section 5.9.5 presents applicable Laws, Ordinances, and Regulations (LORS), permit requirements, schedules, and agency contacts, but not in the format of tables or matrix. |

Adequacy Issue: Adequate  Inadequate

**DATA ADEQUACY WORKSHEET**

Revision No. 0 Date December 2021

Technical Area: Public Health

Project: Pecho Energy Storage Center

Technical Staff: Huei-An (Ann) Chu

Project Manager: Lisa Worrall

Docket: 21-AFC-01

Technical Senior: Joseph Hughes

| SITING REGULATIONS     | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER                        | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------|---|---|--------------------|---|
| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities. | Table 5.9-8: Agency Contacts for Public Health, p. 5.9-24 | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Section 5.9.5.5, Table 5.9-8, p. 5.9-24                   | Yes                |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | Section 5.9.5.4, p. 5.9-24                                | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Reliability**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ken Salyphone  
 Technical Senior: Shahab Khoshmashrab

| SITING REGULATIONS          | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER                                 | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|-----------------------------|---|--|--------------------|---|
| Appendix B (g) (1)          | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 1.2<br>Section 1.4<br>Section 1.5<br>Section 5.0           | Yes                |   |
| Appendix B (h) (3) (A)      | A discussion of the sources and availability of the fuel or fuels to be used over the estimated service life of the facilities.   | Section 2.2.4<br>Section 5.1.3.2                                   | Yes                |   |
| Appendix B (h) (3) (B)      | A discussion of the anticipated service life and degree of reliability expected to be achieved by the proposed facilities on consideration of:  | Section 2.2<br>Section 2.2.2<br>Section 2.2.2.1                    | Yes                |   |
| Appendix B (h) (3) (B) (i)  | Expected overall availability factor, and annual and lifetime capacity factors;   | Section 1.5<br>Section 2.2.2<br>Section 2.2.2.1                    | Yes                |   |
| Appendix B (h) (3) (B) (ii) | The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system;                         | Section 1.3<br>Section 1.5<br>Section 2.1<br>Section 2.1.3 - 2.1.9 | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Reliability**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ken Salyphone  
 Technical Senior: Shahab Khoshmashrab

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|------------------------------|---|---|--------------------|--|
| Appendix B (h) (3) (B) (iii) | Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability;  | Section 1.1<br>Section 5.4<br>Section 5.6<br>Section 5.11     | Yes                |  |
| Appendix B (h) (3) (B) (iv)  | Special design features adopted by the applicant or resource supplier to ensure power plant reliability including equipment redundancy; and   | Section 2.2.3<br>Section 2.2.3.1<br>Section 2.2.3.2 - 2.2.3.4 | Yes                |  |
| Appendix B (h) (3) (B) (v)   | For technologies not previously installed and operated in California, the expected power plant maturation period.   |   | No                 | 3. Provide the make and model of the air compression drive trains and the air expansion turbine generators.<br>4. Provide historical operational data for the A-CES technology by Hydrostor that shows successful operation of this technology for the time period pertaining to the data. |
| Appendix B (i) (1) (A)       | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | N/A   |                    |  |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Reliability**  
 Project Manager: Lisa Worrall

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 Project: Pecho Energy Storage Center  
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| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities. | N/A                                |                    |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | N/A                                |                    |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | N/A                                |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Socioeconomics**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ellen LeFevre  
 Technical Senior: Steven Kerr

| 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. | 5.10.1 p. 5.10-1. Table 5.10-1, 5.10-2, p. 5.10-3 – 5.10-4, 5.10.3 p. 5.10-24, 5.10.4 p. 5.10-24 | Yes                |   |
| Appendix B (g) (7) (A)       | A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:   | 5.10.1 p. 5.10-1, Table 5.10-1, 5.10-2, p. 5.10-3 – 5.10-4                                       | Yes                |   |
| Appendix B (g) (7) (A) (i)   | The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;   | 5.10.1.4 pp. 5.10-6 – 5.10-7   | Yes                |   |
| Appendix B (g) (7) (A) (ii)  | The social characteristics, including population and demographic and community trends;  | 5.10.1.1 pp. 5.10-1 – 5.10-4   | Yes                |   |
| Appendix B (g) (7) (A) (iii) | Existing unemployment rates;  | 5.10.1.3 p. 5.10-6   | Yes                |   |
| Appendix B (g) (7) (A) (iv)  | Availability of skilled workers by craft required for construction and operation of the project;  | 5.10.2.3.1 Table 5.10-10 p. 5.10-18  | Yes                |   |
| Appendix B (g) (7) (A) (v)   | Availability of temporary and permanent housing and current vacancy rate; and   | 5.10.1.2 p. 5.10-5   | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Socioeconomics**  
 Project Manager: Lisa Worrall

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|------------------------------|---|---|--------------------|---|
| Appendix B (g) (7) (A) (vi)  | Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes for the duration of the project schedule. | Section 5.10.1.6, pp. 5.10-8 – 5.10-10; Section 5.10.1.7, p. 5.10-10      | Yes                |   |
| Appendix B (g) (7) (B)       | A discussion of the socioeconomic impacts caused by the construction and operation of the project (note year of estimate, model, if used, and appropriate sources), including:  | Section 5.10.2.3, p. 5.10-12; Section 5.10.2.4, pp. 5.10-21 - 5.10-23     | Yes                |   |
| Appendix B (g) (7) (B) (i)   | An estimate of the number of workers to be employed each month by craft during construction, and for operations, an estimate of the number of permanent operations workers during a year;   | Section 5.10.2.3.1, Table 5.10-8, pp. 5.10-13 – 5.10-17                   | Yes                |   |
| Appendix B (g) (7) (B) (ii)  | An estimate of the percentage of non-local workers who will relocate to the project area to work on the project;  | Section 5.10.2.3.2, pp. 5.10-18 – 5.10-19; Section 5.10.2.3.3, p. 5.10-19 | Yes                |   |
| Appendix B (g) (7) (B) (iii) | An estimate of the potential population increase caused directly and indirectly by the project;   | Section 5.10.2.3.2, p. 5.10-18; Section 5.10.2.4.2, p. 5.10-22            | Yes                |   |
| Appendix B (g) (7) (B) (iv)  | The potential impact of population increase on housing during the construction and operations phases;   | Section 5.10.2.3.3, p. 5.10-19; Section 5.10.2.4.3, p. 5.10-22            | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
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| Appendix B (g) (7) (B) (v)    | The potential impacts, including additional costs, on utilities (gas, water, and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. Include response times to hospitals and for police, and emergency services. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operating phases; | Section 5.10.2.3.6, p. 5.10-21; Section 5.10.2.3.7, p. 5.10-21; Section 5.10.2.3.8, p. 5.10-21 | Yes                |  |
| Appendix B (g) (7) (B) (vi)   | An estimate of applicable school impact fees;  | Section 5.10.2.4.6 p. 5.10-23  | No                 | Provide estimate of applicable school impact fees  |
| Appendix B (g) (7) (B) (vii)  | An estimate of the total construction payroll and separate estimates of the total operation payroll for permanent and short-term (contract) operations employees;  | Section 5.10.2.3.4, p. 5.10-19; Section 5.10.2.4.4, p. 5.10-22                                 | Yes                |  |
| Appendix B (g) (7) (B) (viii) | An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project;  | Section 5.10.2.3.4, p. 5.10-19; Section 5.10.2.4.4, p. 5.10-22                                 | No                 | Provide estimate of the expenditures for locally purchased materials for the operation phases of the project |
| Appendix B (g) (7) (B) (ix)   | An estimate of the capital cost (plant and equipment) of the project;  | Section 5.10.2.3.4, p. 5.10-19   | Yes                |  |
| Appendix B (g) (7) (B) (x)    | An estimate of sales taxes generated during construction and separately during an operational year of the project;   | Section 5.10.2.3.5, p. 5.10-21   | No                 | Provide an estimate of sales taxes generated during an operational year of the project                       |
| Appendix B (g) (7) (B) (xi)   | An estimate of property taxes generated during an operational year of the project; and   | Section 5.10.2.4.5, p. 5.10-23   | No                 | Provide an estimate of property taxes generated during an operational year of the project                    |



Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Socioeconomics**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ellen LeFevre  
 Technical Senior: Steven Kerr

| SITING REGULATIONS           | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER  | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------------|---|---|--------------------|---|
| Appendix B (g) (7) (B) (xii) | The expected direct, indirect, and induced income and employment effects due to construction, operation, and maintenance of the project.  | Section 5.10.2.3.4, p. 5.10-20; Section 5.10.2.4.4, pp. 5.10-22 – 5.10-23 | Yes                |   |
| Appendix B (i) (1) (A)       | Tables that 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 5.40.5, p. 5.10-25  | Yes                |   |
| Appendix B (i) (1) (B)       | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.   | Section 5.10.7, p. 5.10-27  | Yes                |   |
| Appendix B (i) (2)           | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Section 5.10.6, pp. 5.10-26 – 5.10-27                                     | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Socioeconomics**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ellen LeFevre  
 Technical Senior: Steven Kerr

| <b>SITING REGULATIONS</b> | <b>INFORMATION</b>   | <b>AFC PAGE NUMBER AND SECTION NUMBER</b> | <b>ADEQUATE YES OR NO</b> | <b>INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS</b> |
|---------------------------|--|---|---------------------------|--|
| 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 5.10.7, p. 5.10-27                | Yes                       |  |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Soils  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**

Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Abdel-Karim Abulaban  
 Technical Senior: Shahab Khoshmashrab

| SITING REGULATIONS            | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|-------------------------------|---|------------------------------------|--------------------|---|
| Appendix B (g) (1)            | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Pp. 5.11-1 to 5.11.13              | Yes                |   |
| Appendix B (g) (15) (A)       | A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:   | P. 5.11-3;<br>Figure 5.11-1        | Yes                |   |
| Appendix B (g) (15) (A) (i)   | The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil;   | P. 5.11-2;<br>Table 5.11-1         | Yes                |   |
| Appendix B (g) (15) (A) (ii)  | An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system;  | Pp. 5.11-4 to 5.11-5               | Yes                |   |
| Appendix B (g) (15) (A) (iii) | The location of any proposed fill disposal or fill procurement (borrow) sites; and  | P. 2-21                            | Yes                |   |
| Appendix B (g) (15) (A) (iv)  | The location of any contaminated soils that could be disturbed by project construction.   | P. 5.11-7                          | Yes                |   |
| Appendix B (g) (15) (B)       | An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:   | Pp. 5.11-8 to 5.11-9               | Yes                |   |
| Appendix B (g) (15) (B) (i)   | The quantification of accelerated soil loss due to wind and water erosion; and  | P. 5.11-8                          | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Soils  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**

Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Abdel-Karim Abulaban  
 Technical Senior: Shahab Khoshmashrab

| SITING REGULATIONS           | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER                    | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------------|---|---|--------------------|---|
| Appendix B (g) (15) (B) (ii) | The effect of power plant emissions on surrounding soil-vegetation systems.   | P. 5.11-9   | Yes                |   |
| Appendix B (i) (1) (A)       | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | P. 5.11-11<br>Table 5.11-2                            | Yes                |   |
| Appendix B (i) (1) (B)       | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.   | Pp. 5.11-11 & 5.11-12<br>Table 5.11-2<br>Table 5.11-3 | Yes                |   |
| Appendix B (i) (2)           | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | P. 5.11-12<br>Table 5.11-3                            | Yes                |   |
| Appendix B (i) (3)           | A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | P. 5.11-12  | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Traffic and Transportation  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ashley Gutierrez  
 Technical Senior: Steven Kerr

| SITING REGULATIONS     | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER   | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------|---|--|--------------------|---|
| Appendix B (g) (1)     | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | P. 5.12-3, Section 5.12.1.1<br>P. 5.12-6, Section 5.12.1.2 and 5.12.1.2.1<br>P. 5.12-8, Section 5.12.1.2.2<br>P. 5.12-20, Section 5.12.2.1.1<br>P. 5.12-29, Section 5.12.2.2<br>P. 5.12-30, Sections 5.12.3 and 5.12.3.1<br>P. 5.12-31, Sections 5.12.3.2 through 5.12.3.5<br>P. 5.12-34, Section 5.12.4 | Yes                |   |
| Appendix B (g) (5) (A) | A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.  | P. 5.12-3, Figure 5.12-2   | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Traffic and Transportation  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ashley Gutierrez  
 Technical Senior: Steven Kerr

| SITING REGULATIONS         | INFORMATION  | AFC PAGE NUMBER AND SECTION NUMBER   | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|----------------------------|--|--|--------------------|---|
| Appendix B (g) (5) (B)     | If the proposed project including any linear facility is to be located within 20,000 feet of an airport runway that is at least 3,200 feet in actual length, or 5,000 feet of a heliport (or planned or proposed airport runway or an airport runway under construction, that is the subject of a notice or proposal on file with the Federal Aviation Administration), discuss the project's compliance with the applicable sections of the current Federal Aviation Regulation Part 77 – Objects Affecting Navigable Airspace, specifically any potential to obstruct or impede air navigation generated by the project at operation; such as, a thermal plume, a visible water vapor plume, glare, electrical interference, or surface structure height. The discussion should include a map at a scale of 1:24,000 that displays the airport or airstrip runway configuration, the proposed power plant site and related facilities. | N/A  | Yes                |   |
| Appendix B (g) (5) (C)     | An identification, on topographic maps at a scale of 1:24,000, and a description of existing and planned roads, rail lines, (including light rail), bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following, where applicable:   | P. 5.12-2, Figure 5.12-1<br>P. 5.12-5, Figure 5.12-2<br>P. 5.12-7, Figure 5.12-3<br>P. 5.12-15, Figure 5.12-7<br>P. 5.12-18, Figure 5.12-8 | Yes                |   |
| Appendix B (g) (5) (C) (i) | Road classification and design capacity;   | P. 5.12-3, Section 5.12.1.1<br>P. 5.12-39, Table 5.12-17   | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Traffic and Transportation  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ashley Gutierrez  
 Technical Senior: Steven Kerr

| SITING REGULATIONS           | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER                         | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------------|---|--|--------------------|---|
| Appendix B (g) (5) (C) (ii)  | Current daily average and peak traffic counts;  | P. 5.12-10, Figure 5.12-4<br>P. 5.12-11, Table 5.12-4      | Yes                |   |
| Appendix B (g) (5) (C) (iii) | Current and projected levels of service before project development, during construction, and during project operation;  | P. 5.12-8, Table 5.12-2<br>P. 5.12-32, Table 5.12-13       | Yes                |   |
| Appendix B (g) (5) (C) (iv)  | Weight and load limitations;  | P. 5.12-11, Section 5.12.1.3                               | Yes                |   |
| Appendix B (g) (5) (C) (v)   | Estimated percentage of current traffic flows for passenger vehicles and trucks; and  | P. 5.12-29, Section 5.12.3.2                               | Yes                |   |
| Appendix B (g) (5) (C) (vi)  | An identification of any road features affecting public safety.   | P. 5.12-29, Section 5.12.2.4                               | Yes                |   |
| Appendix B (g) (5) (D)       | An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified in (g)(5)(C). Also include anticipated projectspecific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in (g)(5)(C). | P. 5.12-22, Section 5.12.2.1.3<br>P. 5.12-24, Table 5.12-8 | Yes                |   |
| Appendix B (g) (5) (E)       | A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.  | P. 5.12-29, Section 5.12.2.3                               | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: Traffic and Transportation  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Ashley Gutierrez  
 Technical Senior: Steven Kerr

| 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 that 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 | Pp. 5.12-42 through 5.12-44, Section 5.12.5<br>P. 5.12-45, Section 5.12.7 | Yes                |   |
| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.   | Pp. 5.12-44 to 5.12-45, Section 5.12.6, Table 5.12-19                     | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | P. 5.12-44, Section 5.12.6, Table 5.12-19                                 | Yes                |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | P. 5.12-45, Section 5.12.7, Table 5.12-20                                 | Yes                |   |



Adequacy Issue: Adequate  X  Inadequate \_\_\_\_\_  
 Technical Area:  Trans Line Safety & Nuisance   
 Project Manager:  Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project:  Pecho Energy Storage Center   
 Docket:  21- AFC-01

Revision No.  0  Date  December 2021   
 Technical Staff:  Huei-An (Ann) Chu   
 Technical Senior:  Joseph Hughes

| 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 2.0<br>Section 5.9         | Yes                |   |
| Appendix B (g) (18) (A) | The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.   | Section 3.2, pp. 3-1 to 3-7        | Yes                |   |
| Appendix B (g) (18) (B) | An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project. | Section 3.3.2.1, p. 3-10           | Yes                |   |
| Appendix B (g) (18) (C) | Specific measures proposed to mitigate identified impacts, including a description of measures proposed to eliminate or reduce radio and television interference, and all measures taken to reduce electric and magnetic field levels.  | P. 3-7, p. 3-8, p. 3-11,           | Yes                |   |

Adequacy Issue: Adequate  X  Inadequate \_\_\_\_\_  
 Technical Area:  Trans Line Safety & Nuisance   
 Project Manager:  Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project:  Pecho Energy Storage Center   
 Docket:  21- AFC-01

Revision No.  0  Date  December 2021   
 Technical Staff:  Huei-An (Ann) Chu   
 Technical Senior:  Joseph Hughes

| 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 that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Section 3.4, Table 3-1, 3-2, 3-3, 3-4, 3-5, 3-6 | Yes                |   |
| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.   | Section 3.4.7, Table 3-7                        | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Section 3.4.7, Table 3-7                        | Yes                |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | Section 1.7, p. 1-10<br>Section 3.2.3, p. 3-6   | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Transmission System Design**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Laiping Ng  
 Technical Senior: Mark Hesters

| SITING REGULATIONS     | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER   | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS   |
|------------------------|---|--|--------------------|---|
| Appendix B (h) (2) (A) | A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.  | Section 2.0<br>P. 2-1<br>Section 2.1.14.2<br>P. 17<br>Section 2.1.20<br>P. 2-27    | Yes                |   |
| Appendix B (h) (2) (B) | A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.   | Section 1.0<br>P. 1-1<br>Section 2.1<br>Pp. 2-2, 2-9 to 2-12                       | Yes                |   |
| Appendix B (b) (2) (C) | A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. | Section 3.0<br>P. 3-1<br>Section 3.2<br>Pp. 3-1 to 3-7<br>Figure 3-1 to Figure 3-4 | No                 | A complete project description includes drawings of the changes required at the interconnecting substation, PG&E's Morro Bay Substation. Detailed one-line diagrams of the Morro Bay Substation before the proposed project and after the proposed project would interconnect should be included as well as any potential changes to the existing fence line at the Morro Bay Substation. |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X** **DATA ADEQUACY WORKSHEET** Revision No. 0 Date December 2021  
 Technical Area: **Transmission System Design** Project: Pecho Energy Storage Center Technical Staff: Laiping Ng  
 Project Manager: Lisa Worrall Docket: 21-AFC-01 Technical Senior: Mark Hesters

| SITING REGULATIONS     | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER                  | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
|------------------------|---|---|--------------------|---|
| Appendix B (b) (2) (D) | A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.   | Section 2.1.1<br>P. 2-2<br>Figure 2.1 to Figure 2.2 | Yes                |   |
| Appendix B (b) (2) (E) | <p>A completed System Impact Study or signed System Impact Study Agreement with the California Independent System Operator and proof of payment. When not connecting to the California Independent System Operator controlled grid, provide the executed System Impact Study agreement and proof of payment to the interconnecting utility.</p> <p>If the interconnection and operation of the proposed project will likely impact an transmission system that is not controlled by the interconnecting utility (or California Independent System Operator), provide evidence of a System Impact Study or agreement and proof of payment (when applicable) with/to the impacted transmission owner or provide evidence that there are no system impacts requiring mitigation.</p> | Section 3.2.5<br>Pp. 3-7 to 3-9<br>Appendix 3A      | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Transmission System Design**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Laiping Ng  
 Technical Senior: Mark Hesters

| SITING REGULATIONS     | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS  |
|------------------------|---|------------------------------------|--------------------|--|
| Appendix B (i) (1) (A) | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Section 3.4<br>Pp. 3-12 to 3-15    | Yes                |  |
| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.   | Section 3.4.7<br>Pp. 3-14 to 3-15  | Yes                |  |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | NA                                 |                    |  |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | NA                                 |                    | Schedule is dictated by the CAISO Interconnection Process. |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Visual Resources**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Mark R. Hamblin  
 Technical Senior: Steven Kerr

| SITING REGULATIONS          | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER   | ADEQUATE YES OR NO | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS  |
|-----------------------------|---|--|--------------------|--|
| Appendix B (g) (1)          | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | P. 5.13-4-5, Section 5.13.2.2<br>P. 5.13-20-21, Section 5.13.3.5<br>P. 5.13-21-22, Section 5.13.4<br>P. 5.13-22-23, Section 5.13.5 | Yes                |  |
| Appendix B (g) (6) (A)      | Descriptions of the existing visual setting of the vicinity of the proposed project site and the proposed routes for any project-related linear facilities. Include:  | P. 5.13-4-5, Section 5.13.2.2  | Yes                |  |
| Appendix B (g) (6) (A) (i)  | Topographic maps at a scale of 1:24,000 that depict directions from which the project would be seen, the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(C); and  | P. 5.13-6, Section 5.13.2.4.1  | No                 | Provide Figure 5.13-3 Key Observation Point and Light Receptors Locations. Page 5.13-3 only provides a page with the figure title no map or figure. Page 5.13-2 (Figure 5.13-1 Project Location) is absent a figure or map. Provide all figures identified for this section. |
| Appendix B (g) (6) (A) (ii) | Description of the existing visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities, including existing water vapor plumes, above-ground electrical transmission lines, and nighttime lighting levels in the project viewshed.  | P. 5.13-4, Section 5.13.2.1<br>P. 5.13-4-5, Section 5.13.2.2   | Yes                |  |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Visual Resources**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Mark R. Hamblin  
 Technical Senior: Steven Kerr

| SITING REGULATIONS     | INFORMATION   | AFC PAGE NUMBER AND SECTION NUMBER   | ADEQUATE YES OR NO                           | INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS |
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| Appendix B (g) (6) (B) | An assessment of the visual quality of those areas that would be affected by the proposed project. For projects proposed to be located within the coastal zone, the assessment should also describe how the proposed project would be sited to protect views to and along the ocean and scenic coastal areas, would minimize the alteration of natural landforms, would be visually compatible with the character of surrounding areas.   | Pp. 5.13-15-20, Section 5.13.3.4.1 and Section 5.13.3.4.2<br>P. 5.13-20-21, Section 5.13.3.5<br>P. 5.13-22-23, Section 5.13.5. | Yes  |   |
| Appendix B (g) (6) (C) | In consultation with Commission staff, identify: i) designated scenic roadways or scenic corridors and any visually sensitive areas that would be affected by the proposed project, including recreational and residential areas; and ii) the locations of the key observation points to represent the most critical viewing locations from which to conduct detailed analyses of the visual impacts of the proposed project. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. Also identify any major public roadways and trails of local importance that would be visually impacted by the project and indicate the types of travelers (that is, residents, recreationists, workers, commuters, etc.) and the approximate number of vehicles, bicyclists, and/or hikers per day. | P. 5.13-7-9, Section 5.13.3.1.3<br>P. 5.13-9-10, Section 5.13.3.1.4<br>P. 5.13-18, Section 5.13.3.4.1                          | No consultation with staff otherwise<br>Yes. |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Visual Resources**  
 Project Manager: Lisa Worrall

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| Appendix B (g) (6) (D)    | A table providing the dimensions (height, length, and width, or diameter) and, proposed color(s), materials, finishes, patterns, and other proposed design characteristics of each major component visible from off the project site, including any project-related electrical transmission line and/or offsite aboveground pipelines and metering stations. | P. 5.13-13-14, Section 5.13.3.3.1         | Yes                       |  |



Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
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| Appendix B (g) (6) (E) | Provide the cooling tower and heat recovery steam generator (HRSG) exhaust design parameters that affect visible plume formation. For the cooling tower, data shall include heat rejection rate, exhaust temperature, exhaust mass flow rate, liquid to gas mass flow ratio, and, if the tower is plume-abated, moisture content (percent by weight) or plume-abated fogging curve(s). The parameters shall account for a range of ambient conditions (temperature and relative humidity) and proposed operating scenarios, such as duct firing and shutting down individual cells. For the heat recovery steam generator exhausts, data shall include moisture content (percent by weight), exhaust mass flow rate, and exhaust temperature. The parameters must correspond to full-load operating conditions at specified ambient conditions, and shall account for proposed operating scenarios, such as power augmentation (that is, evaporative coolers, inlet foggers, or steam injection) and duct firing, or proposed HRSG visible plume abatement, such as the use of an economizer bypass. For simple-cycle projects, provide analogous data for the exhaust stack(s). | P. 5.13-14-15, Section 5.13.3.3.3<br>Appendix 5.13B<br>Psychrometric Analysis for Decompressed Air Discharge (TN #240712-25)<br>P. 2-12, Section 2.1.9 | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Visual Resources**  
 Project Manager: Lisa Worrall

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| Appendix B (g) (6) (F) | Provide:<br>i) full-page color photographic reproductions of the existing site, and<br><br>ii) full-page color simulations of the proposed project at life-size scale when the picture is held 10 inches from the viewer's eyes, including any project-related electrical transmission lines, in the existing setting from each key observation point. If any landscaping is proposed to comply with zoning requirements or to mitigate visual impacts, include the landscaping in simulation(s) representing sensitive area views, depicting the landscaping five years after installation; and estimate the expected time until maturity is reached. | Appendix 5.13A Landscape Photographs and Simulations (TN #240739)      | Yes                |   |
| Appendix B (g) (6) (G) | An assessment of the visual impacts of the project, including light, glare, and any modeling of visible plumes. Include a description of the method and identify any computer model used to assess the impacts. Provide an estimate of the expected frequency and dimensions (height, length, and width) of the visible cooling tower and/or exhaust stack plumes. Provide the supporting assumptions, meteorological data, operating parameters, and calculations used.   | P. 5.13-18-20, Section 5.13.3.4.2<br>P. 5.13-14-15, Section 5.13.3.3.3 | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Visual Resources**  
 Project Manager: Lisa Worrall

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| Appendix B (g) (6) (H) | If any landscaping is proposed to reduce the visual impacts of the project, provide a conceptual landscaping plan at a 1:40 scale (1"=40'). Include information on the type of plant species proposed, their size, quantity, and spacing at planting, expected heights at 5 years and maturity, and expected growth rates.  | P. 5.13-22, Section 5.13.5.        | No                 | Provide a conceptual landscape plan.  |
| Appendix B (i) (1) (A) | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | P. 5.13-23-25, Section 5.13.6      | No                 | 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. |
| Appendix B (i) (1) (B) | Tables that 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.  | P. 5.13-25, Section 5.13.7         | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | P. 5.13-25, Section 5.13.7         | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Visual Resources**  
 Project Manager: Lisa Worrall

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| Appendix B (i) (3)        | A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | P. 5.13-25, Section 5.13.8                | Yes                       |  |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Waste Management**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**

Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Garry Maurath  
 Technical Senior: Brett Fooks

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| Appendix B (b) (1) (C) | A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and   | Section 1.3 Project Elements; pp. 1-5 through 1-8<br>Section 2.0 Project Description; pp. 2-1 through 2.30  | Yes                |   |
| Appendix B (e) (1)     | A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.  | Section 2.3 Facility Closure; p. 2-31<br>Section 5.14.4.3 Facility Closure; pp. 5.14-19 through 5.14-20   | Yes                |   |
| Appendix B (g) (1)     | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 5.14.1 Affected Environment; pp. 5.14-1 through 5.14-5.14-10<br>Section 5.14.2 Environmental Analysis; pp. 5.14-10 through 5.14-15<br>Section 5.14.4 Mitigation and Waste Management Methods; pp. 5.14-15 through 5.14-20 | Yes                |   |

Adequacy Issue: Adequate  X  Inadequate \_\_\_\_\_  
 Technical Area:  Waste Management   
 Project Manager:  Lisa Worrall

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Revision No.  0  Date  December 2021   
 Technical Staff:  Garry Maurath   
 Technical Senior:  Brett Fooks

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| Appendix B (g) (12) (A) | A Phase I Environmental Site Assessment (ESA) for the proposed power plant site using methods prescribed by the American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process" (Designation: E 1527-93, May 1993), which is incorporated by reference in its entirety; or an equivalent method agreed upon by the applicant and Commission staff that provides similar documentation of the potential level and extent of site contamination. The Phase I ESA shall have been completed no earlier than one year prior to the filing of the AFC. | Pecho Energy Center's Application for Certification- Appendix 14A Phase 1 ESA; total 249 pages | Yes                |   |
| 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 5.14.1.2 Project Waste Generation; pp. 5.14-1 through 5.14-10                          | Yes                |   |

Adequacy Issue: Adequate  X  Inadequate \_\_\_\_\_  
 Technical Area:  Waste Management   
 Project Manager:  Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
 Project:  Pecho Energy Storage Center   
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| 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 California Code of Regulations, title 23, section 2530 et seq., the daily or annual permitted capacity, daily or annual amounts of waste currently being accepted, the estimated closure date and remaining capacity, and a description of any enforcement action taken by local or state agencies due to waste disposal activities at the site. | Section 5.14.2.3 Solid Waste Disposal; pp. 5.14-11 through 5.14-15                  | Yes                |   |
| Appendix B (g) (12) (D)    | A description of management methods for each waste stream, including methods used to minimize waste generation, length of on- and off-site waste storage, re-use and recycling opportunities, waste treatment methods used, and use of contractors for treatment.   | Section 5.14.4 Mitigation and Waste Management Methods; pp. 5.14-15 through 5.14-19 | Yes                |   |
| Appendix B (h) (1) (B)     | A discussion of any measures proposed to improve adverse site conditions.   | Section 5.14.4 Mitigation and Waste Management Methods; pp. 5.14-15 through 5.14-19 | Yes                |   |
| Appendix B (h) (1) (D) (v) | The waste disposal system and on-site disposal sites;   | Section 5.14.2.3 Solid Waste Disposal; pp. 5.14-11 through 5.14-15                  | Yes                |   |

Adequacy Issue: Adequate  Inadequate   
 Technical Area: **Waste Management**  
 Project Manager: Lisa Worrall

**DATA ADEQUACY WORKSHEET**  
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|------------------------|---|--|--------------------|---|
| Appendix B (i) (1) (A) | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Section 5.14.5 Laws, Ordinances, Regulations, and Standards; pp. 5.14-20 through 5.14-24 | Yes                |   |
| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.   | Section 5.14.6 Agencies and Agency Contacts; p. 5.14-24                                  | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Section 5.14.6 Agencies and Agency Contacts; p. 5.14-24                                  | Yes                |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | Section 5.14.7 Permits and Permit Schedule; p. 5.14-25                                   | Yes                |   |



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

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 Project: Pecho Energy Storage Center  
 Docket: 21-AFC-01

Revision No. 0 Date December 2021  
 Technical Staff: Abdel-Karim Abulaban  
 Technical Senior: Shahab Khoshmashrab

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| Appendix B (g) (1)            | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Section 2.1.15, p. 2-21;<br>Section 5.15, pp. 5.15-1 to 5.15-30<br>Appendix 2D | Yes                |   |
| Appendix B (g) (14) (A)       | All the information required to apply for the following permits, if applicable, including:  |  | Yes                |   |
| 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 5.15.5.2<br>P. 5.15-25 &-26  | Yes                |   |
| Appendix B (g) (14) (A) (ii)  | Construction and Industrial Waste Discharge or Industrial Pretreatment permits from wastewater treatment agencies;  | N/A  | N/A                | Project would not discharge industrial wastewater.        |
| Appendix B (g) (14) (A) (iii) | Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and  | N/A  | N/A                |   |
| 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.   | Section 5.15.5.1<br>P. 5.15-24   | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
 Technical Area: **Water Resources**  
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| 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 5.15.1<br>P. 5.15-1 to -9                           | Yes                |   |
| Appendix B (g) (14) (B) (i)   | Ground water bodies and related geologic structures;   | Section 5.15.1.1<br>P. 5.15-2 to -5; Figure 5.15-2          | Yes                |   |
| Appendix B (g) (14) (B) (ii)  | Surface water bodies;  | Section 5.15.1.1<br>P. 5.15-2<br>Figure 5.15-1              | Yes                |   |
| Appendix B (g) (14) (B) (iii) | Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;   | Section 5.15.1.4<br>P. 5.15-9<br>Figure 5.15-4              | Yes                |   |
| Appendix B (g) (14) (B) (iv)  | Flood control facilities (existing and proposed); and  | Section 5.15.1.4, P. 5.15-9<br>Section 5.15.2.3, P. 5.15-21 | Yes                |   |
| Appendix B (g) (14) (B) (v)   | Groundwater wells within 1/2 mile if the project will include pumping.   | Figure 5.15-3   | Yes                |   |
| Appendix B (g) (14) (C)       | A description of the water to be used and discharged by the project. This information shall include:   |   |                    |   |
| Appendix B (g) (14) (C) (i)   | Source(s) of the primary and back-up water supplies and the rationale for their selection;   | Section 5.15.1.5<br>P. 5.15-11                              | Yes                |   |

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| 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 (that is, laboratory analysis);  | Section 5.15.1.5.3<br>P. 5.15-16 & -19                 | Yes                |   |
| 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;   | Section 5.15.1.5.3<br>Pp. 5.15-11 to -15               | Yes                |   |
| Appendix B (g) (14) (C) (iv)  | A detailed description of all facilities to be used in water conveyance (from primary source to the power plant site), water treatment, and wastewater discharge. Include a water mass balance diagram;  | Section 5.15.1.5<br>Pp. 5.15-11 to -18;<br>Appendix 2D | Yes                |   |
| Appendix B (g) (14) (C) (v)   | For all water supplies intended for industrial uses to be provided from public or private water purveyors, a letter of intent or will-serve letter indicating that the purveyor is willing to serve the project, has adequate supplies available for the life of the project, and any conditions or restrictions under which water will be provided. If a will-serve letter or letter of intent cannot be provided, identify the most likely water purveyor and discuss the necessary assurances from the water purveyor to serve the project; | Section 5.15.1.5<br>P. 5.15.11                         | Yes                |   |

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| 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 (that is, surface water, groundwater), and provide the status of all appropriate agencies' approvals for the proposed use, environmental impact analysis on the specific transfers 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); | N/A   | N/A                |   |
| Appendix B (g) (14) (C) (vii) | Provide water mass balance and heat balance diagrams for both average and maximum flows that include all process or ancillary water supplies and wastewater streams. Highlight any water conservation measures on the diagram and the amount that they reduce water demand; and   | Section 5.15.1.5.2.2<br>Pp. 5.15-12 to -15<br>Appendix 2D | Yes                |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
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| 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> | Section 5.15.5.2.2<br>Pp. 5.15-25 to -26 | Yes                |   |
| Appendix B (g) (14) (D)        | Identify all project elements associated with stormwater drainage, including a description of the following:   |  |                    |   |

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate **X**  
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 Project Manager: Lisa Worrall

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 Technical Staff: Abdel-Karim Abulaban  
 Technical Senior: Shahab Khoshmashrab

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|-------------------------------|---|---|--------------------|---|
| Appendix B (g) (14) (D) (i)   | Monthly and 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 5.15.1.6<br>P. 5.15-17<br>Fig. 5.15-5               | Yes                |   |
| Appendix B (g) (14) (D) (ii)  | Drainage facilities and the design criteria used for the plant site and ancillary facilities, including but not limited to capacity of designed system, design storm, and estimated runoff; | Section 5.15.7, P. 5.15-20;<br>Section 5.15.2.3, P. 5.15-21 | Yes                |   |
| Appendix B (g) (14) (D) (iii) | All assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post-construction; and   | Appendix 5.15B  | Yes                |   |
| Appendix B (g) (14) (D) (iv)  | A copy of applicable regional and local requirements regulating the drainage systems, and a discussion of how the project's drainage design complies with these requirements.               | Section 5.15.5.2,<br>Pp. 5.15-20 to -27;<br>Table 5.15-7    | Yes                |   |
| Appendix B (g) (14) (E)       | An impacts analysis of the proposed project on water resources and a discussion of conformance with water-related LORS and policy. This discussion shall include:                           |   |                    |   |

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| 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 5.15-2<br>Pp. 5.15-20 to -22                                     | Yes                |   |
| 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 5.15.1.2, P. 5.15-11;<br>Section 5.15.2.1,<br>Pp. 5.15-20 to -21 | No                 | No groundwater drawdown analysis due to project pumping was provided. Only qualitative statements that project pumping would not cause adverse effects. Please provide this analysis. |
| 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 5.15.2,<br>Pp. 5.15-20 to -22                                    | Yes                |   |

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| 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;" | Section 5.15.2<br>Pp. 5.15-21 to -22   | Yes                |   |
| 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;"  | Section 5.15.2.1<br>P. 5.15-21   | Yes                |   |
| 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 5.15.1.7, p. 5.15-20; Appendix 5.15B<br>Section 5.15.2.3, p. 5.15-21 | Yes                |   |
| Appendix B (g) (14) (vii) | All assumptions, evidence, references, and calculations used in the analysis to assess these effects.   | Appendix 5.15B   | Yes                |   |



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| Appendix B (i) (1) (A) | Tables that identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and | Table 5.15-6                       | Yes                |   |
| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.   | Table 5.15-7                       | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Table 5.15-7                       | Yes                |   |
| Appendix B (i) (3)     | A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.  | Table 5.15-7                       | Yes                |   |

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 Technical Area: Worker Safety  
 Project Manager: Lisa Worrall

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 Technical Senior: Brett Fooks

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| Appendix B (g) (1)      | ...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation. | Pp. 5.16-1 through 5.16-2, Section 5.16.2       | Yes                |   |
| Appendix B (g) (11) (A) | A description of the safety training programs that will be required for construction and operation personnel.   | Pp. 5.16-8 through 5.16-15, Section 5.16.2.3    | Yes                |   |
| Appendix B (g) (11) (B) | A complete description of the fuel handling system and the fire suppression system.   | P. 5.16-25, Section 5.16.2.4                    | Yes                |   |
| Appendix B (g) (11) (C) | Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows:   | Pp. 5.16-8 through 5.16-21, Section 5.16.2.3    | Yes                |   |
|                         | Construction Health and Safety Program:<br>* Injury and Illness Prevention Plan (8 Cal. Code Regs., section 1509);  | P. 5.16-8, Section 5.16.2.3.1                   | Yes                |   |
|                         | * Fire Protection and Prevention Plan (8 Cal. Code Regs., section 1920);  | P. 5.16-8, Section 5.16.2.3.1                   | Yes                |   |
|                         | * Personal Protective Equipment Program (8 Cal. Code Regs., sections 1514-1522)   | P. 5.16-9, Section 5.16.2.3.1                   | Yes                |   |
|                         | Operation Health and Safety Program:<br>* Injury and Illness Prevention Program (8 Cal. Code Regs., section 3203);  | Pp. 5.16-15 through 5.16-21, Section 5.16.2.3.2 | Yes                |   |
|                         | * Fire Prevention Plan (8 Cal. Code Regs., section 3221);   | Pp. 5.16-15 through 5.16-16, Section 5.16.2.3.2 | Yes                |   |

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|                        | * Emergency Action Plan (8 Cal. Code Regs., section 3220);<br>Personal Protective Equipment Program (8 Cal. Code Regs., sections 3401-3411).  | P. 5.16-16, Section 5.16.2.3.2<br>Pp. 5.16-16 through 5.16-17, Section 5.16.2.3.2 | Yes<br>Yes         |   |
| Appendix B (i) (1) (A) | Tables that 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 | Pp. 5.16-26 through 5.16-32, Table 5.16-7   | Yes                |   |
| Appendix B (i) (1) (B) | Tables that 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 that would have permit approval or enforcement authority, but for the exclusive authority of the Commission to certify sites and related facilities.   | Pp. 5.16-32 through 5.16-33, Table 5.16-8   | Yes                |   |
| Appendix B (i) (2)     | The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and provide the name of the official who will serve as a contact person for Commission staff.   | Pp. 5.16-32 through 5.16-33, Table 5.16-8   | Yes                |   |

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|---------------------------|--|---|---------------------------|--|
| Appendix B (i) (3)        | A schedule indicating when permits outside the authority of the Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits. | P. 5.16-33, Table 5.16-9                  | Yes                       |  |