

PASTORIA ENERGY FACILITY 160 MW EXPANSION PROJECT
SUPPLEMENT TO APPLICATION FOR CERTIFICATION
Responses to CEC Staff Data Requests
Dated June 9, 2005
05-AFC-1

EXHIBIT 5
SOCIOECONOMICS MATERIALS

- Errata Sheet for 05-AFC-1 Section 5.10.2.3 page 5.10-4

TABLE 5.10-2
DISTRIBUTION OF AVERAGE NUMBER OF NON-LOCAL WORKER
HOUSEHOLDS IN STUDY AREA COMMUNITIES
(CONSTRUCTION AND OPERATION)¹

| Community | Existing PEF Operations Phase | | | | Construction Phase for PEF Expansion | | | |
|---|-------------------------------|----------------------|------------------|-----------|--------------------------------------|----------------------|------------------|-----------|
| | Permanent Employees | School-Aged Children | Other Dependents | Total | Contractor Staff | School-Aged Children | Other Dependents | Total |
| Bakersfield | 9 | 8 | 9 | 26 | 10 | 10 | 10 | 30 |
| Delano | 2 | 2 | 2 | 6 | 2 | 2 | 2 | 6 |
| Wasco | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 3 |
| Arvin | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 3 |
| Other areas of Kern County and LA County ² | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| Total | 13 | 12 | 13 | 38 | 15 | 15 | 15 | 45 |

¹ These numbers are based on the average number of non-local workers and on an average household size of 3.04 persons. The distribution was developed proportionate to the existing populations of the listed communities.

² Includes McFarland, Shafter, Taft, Tehachapi, and other areas of Kern and Los Angeles Counties.

5.10.2.3 Employment and Economy

Consistent with the methodology used in 99-AFC-7, which used the IMPLAN Model to estimate the number of direct and indirect employment associated with construction, construction of the PEF Expansion will generate an estimated average of ~~175~~–145 construction jobs at the plant site during construction. Using a multiplier of 3.23 for construction employment for major facilities in Kern County, these ~~175~~–145 direct jobs would support an additional ~~565~~–323 secondary jobs in Kern County during the construction period.

5.10.2.4 Housing

Construction of the PEF Expansion will result in an increase of 15 non-local workers. As discussed in Section 5.10.2.2, it is estimated that ten households will locate in Bakersfield, two households will locate in Delano, and the three remaining households will relocate in another area of Kern County (including Arvin, McFarland, Shafter, Maricopa, Taft, Wasco, and Tehachapi), or in Southern California. The availability of housing resources is presented in Table 5.10-5 of Section 5.10 of 99-AFC-7 included for reference as part of Attachment I of this application, and is considered to be adequate to meet this demand without significantly lowering the vacancy rates in the affected communities. At peak, the 15 non-local workers will require about ten units in Bakersfield, two units in Delano, and three additional units distributed among other areas of Kern County (including Arvin, McFarland, Shafter, Maricopa, Taft, Wasco, and Tehachapi), or in Southern California.

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SOILS

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.

Response: As confirmed by CEC Technical staff in the Data Adequacy Worksheets, information on soils is located as follows in 05-AFC-1: Volume I, Section 5.5, pages 5.4-1 to 5.4-2; Volume I, Section 7, Table 7-1, pages 7-11 to 7-12 and pages 7-32 to 7-37; Volume II, Attachment C, Section 5.4, pages 5.4-1 to 5.4-25; and Volume I, Section 9, Conditions of Certification, Soil & Water 1, 2, 3 and 4, pages 57 to 59. The only information that was not adequately addressed is information related to the effect of power plant emissions on surrounding soil-vegetation that is addressed below.

Appendix B (g) (15) (C) (iii): The effect of power plant emissions on surrounding soil-vegetation systems

Response: There is a concern in some areas that emissions from a generating facility, principally nitrogen (NO_x) from the combustors or drift from the cooling towers, would have an adverse effect on soil-vegetation systems in the project vicinity. This is principally a concern where environments that are highly sensitive to nutrients or salts, such as serpentine habitats, are downwind of the project. In the case of the PEF Expansion (160 MW simple cycle unit), only NO_x from the combustors could have an adverse impact on the surrounding vegetation since there is no cooling tower component proposed as part of the Expansion project.

Modeled ground level concentrations of criteria air pollutants (e.g. nitrogen oxides, sulfur dioxide and carbon monoxide) resulting from operational emissions are below significance levels as evaluated in AFC Section 5.2.5.4.4 and Table 5.2-26. However, particulate matter ($\text{PM}_{2.5}$ and PM_{10}) levels continue to exceed state and federal standards, which was also the case for the existing PEF. These significance levels and ambient air quality standards have been developed to protect public health, crops, soils, natural vegetation, and wildlife among other things. In particular, the thresholds for significance for impacts to vegetation and ecosystems published by the U.S. Forest Service for Class I Wilderness Areas are intended to provide a worst-case analysis for highly sensitive ecosystems. However, the maximum modeled airborne concentrations of NO_2 and SO_2 from the proposed plant indicate that the potential gaseous concentrations and total nitrogen and sulfur deposition values would be well below levels of concern for California plants and soils in Class I Wilderness Areas

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published by the USFS. This indicates that crops, native vegetation, wildlife and soils in the project vicinity would not be adversely impacted by NO₂ or SO₂ emissions.

Appendix B (h) (1) (A): Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of 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;

Response: Table 7-1 from 05-AFC-1, Section 7.5.4 includes an identification of the LORS related to construction and operation of a power plant. Exhibit 6 includes additional discussion of the applicability of each of the LORS as it pertains to the PEF Expansion project for Agriculture and Soils.

Appendix B (h) (2): A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).

Response: The revised Section 7.5.4, included in Exhibit 6, addresses this request.