

9.0 ENGINEERING

The Tracy Peaker Project (TPP) will be designed for high reliability and efficiency. A detailed project description is provided in Section 2.0. The engineering standards and requirements are provided in Appendix J. The details of the transmission system design, including information on the safety and reliability of the transmission system, are provided in Section 6.0 (Electric Transmission) and Appendix A.

A description of the TPP and its design and operation can be found in Section 2.0 (Project Description). Design and engineering information for the TPP is located throughout this Application for Certification (AFC), as follows:

Power generation	Section 2.2.2 (Process Description), Section 2.2.4 (Combustion Turbine Generator). Additional information is also contained in Appendix J.
Water supply system	TPP water make-up will be supplied by a new water supply line to the Delta-Mendota Canal, as described in Section 2.2.7.2 (Water Supply).
Atmospheric emission control system	Section 2.2.2 (Process Description), Section 2.2.4 (Combustion Turbine Generator), Section 2.2.10 (Emissions Control and Monitoring), and Section 8.1 (Air Quality).
Waste disposal system	Section 2.2.8 (Waste Management), Section 8.13 (Waste Management), and Appendix J.
Noise abatement	Section 2.2.4. (Combustion Turbine Generator), Section 8.5 (Noise), and Appendix J.
Switchyard/transformer systems	Section 2.2.5 (Major Electrical Equipment and Systems), Section 6.0 (Electric Transmission), and Appendix J.
Transmission system design	Section 6.0 (Electric Transmission) and Appendix A.
Reliability	Section 2.4 (Facility Reliability).
Efficiency	Section 2.0 (Project Description), Figures 2-5, 2-6A, 2-6B, 2-7A, and 2-7B at 15 degrees Fahrenheit (°F), 59 °F, and 115 °F (with the evaporative cooler on and off except for 15 °F case) and in Appendix J.

Information regarding design measures to ensure safe facility operation is contained in Section 2.3 (Facility Safety Design). Applicable engineering laws, ordinances, regulations, and standards (LORS) are summarized in Section 2.5, Table 2-6, and Appendix H. Throughout this AFC and Appendix J, references to the Uniform Building Code should be understood to be inclusive of the corresponding provisions of the California Building Code.

A geotechnical investigation of the TPP site was conducted, including foundation core borings, and can be found in Appendix J.

Additional engineering information, including information on mechanical engineering, electrical engineering, civil engineering, structural engineering, system controls, and an equipment summary, is contained in Appendix J.

The TPP will comply with all applicable LORS. A summary of the LORS is provided in Section 2.5 and Table 2-6. Proposed conditions of certification are contained in Appendix K. These conditions are proposed in order to ensure compliance with applicable LORS and/or to reduce potentially significant impacts to less-than-significant levels.

Contact information for the pertinent agency is provided below.

Agency	Contact/Title	Telephone
San Joaquin County Community Development Department 1810 E. Hazelton Avenue Stockton, CA 95205-6298	Community Development Director	(209) 468-3121
City of Tracy Department of Engineering Services 520 Tracy Boulevard Tracy, CA 95376	Mr. William Reeds Director of Development and Engineering Services	(209) 831-4600
