State of California
California Energy Commission

DUTY STATEMENT

CEC-004 (Revised 4/2024)

Classification(s): Mechanical Engineer

Working Title: Mechanical Engineer

Position Number: 535-770-3583-004

Division/Branch or Office: Siting, Transmission, and Environmental Protection / Engineering

Collective Bargaining Identifier (CBID): R09

Work Week Group (WWG): 2

Date Approved: November 3, 2026

Conflict of Interest (COI): ☒ **Yes** ☐ **No**

If yes, this position is responsible for making or participating in the making of governmental decisions that may potentially have a material effect on personal financial interests. The appointee is required to complete Form 700 within 30 days of appointment, which identifies pertinent personal financial information.

Job Description

Under the direction of the Program and Project Supervisor, the Mechanical Engineer independently performs mechanical engineering analyses related to worker safety, fire protection, and facility design for power generation plants and related facilities. Duties include evaluating fire protection systems, life safety considerations, and fire-related hazards such as battery energy storage system thermal runaway risks. The incumbent will also conduct analyses related to noise and vibration, facility design, power plant efficiency, and power plant reliability, and generating capacity determinations.

The incumbent will review environmental documents and prepare written and oral testimony for proposed energy infrastructure as California moves toward a 100 percent clean energy future. The incumbent may function as a member or leader of an interdisciplinary team or coordinate the efforts of representatives of various governmental agencies. Assignments will focus primarily on worker safety and fire protection, including reviewing proposed facility designs, identifying potential fire and life safety hazards, and evaluating the adequacy of proposed fire prevention, detection, suppression, and emergency response measures. Additional responsibilities include supporting energy facility siting proposals under the Energy Commission's regulatory program jurisdiction.

Essential Duties

35% Prepare engineering analysis on a wide range of technical issues related to power plant certification, including worker safety and fire protection, noise and vibration, facility design, power plant efficiency, power plant reliability, and generating capacity determinations. The

analyses are in the form of published staff assessments and written and oral technical testimony, which are presented at Energy Commission hearings and discussed at public workshops. The analyses include evaluating facility design; potential impacts and appropriate mitigation measures; and determining the ability of the facility to comply with applicable laws, ordinances, regulations, and standards.

25% Review and evaluate the mechanical engineering and related aspects as applied to fossil-fueled and non-fossil-fueled power plants (such as hydrogen-fueled and compressed air technologies), solar photovoltaics, wind farms, battery energy storage systems and related facilities. This may include the evaluation of system and equipment design, performance, and reliability, as well as alternatives to the proposed facility.

15% Develop compliance monitoring requirements and verifications related to facility design to ensure that proposed facilities are properly constructed and operated in accordance with Energy Commission certification requirements. Monitor construction and operation of licensed facilities to assure their conformance with licensing requirements.

10% Evaluate the efficiency and reliability implications of energy generation, supply, and end use strategies as input to energy policy development.

5% Coordinate with other environmental, regulatory, and administrative agencies, universities, business organizations, and special interest groups to assure their input into Energy Commission or interagency programs.

5% Evaluate existing and proposed governmental laws, ordinances, regulations, standards, and policies as they pertain to power plant design.

Marginal Duties

5% Perform other duties as required, consistent with the specifications of the classification.

Working Conditions

The CEC supports a hybrid workplace model with office-based and remote-centered workers. Limited in-person attendance and occasional travel may be required based on the needs of the division. Regular and consistent attendance is essential to successful performance. This position is remote-centered, which means the incumbent works 50 percent or more of their time from an alternate work location.

Diversity and Inclusion Statement

Serving all Californians, the CEC embodies diversity, equity, and inclusion, and has taken an active and meaningful role in creating an environment that enables each employee to thrive.

Employee's Acknowledgement: I certify that I am able to perform, with or without the assistance of a reasonable accommodation, the essential duties of this position.

Employee's Name (Print): _____

Employee's Signature: _____ **Date:**_____

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Supervisor's Acknowledgment: I certify this duty statement represents a current and accurate description of the essential functions of this position. I have discussed the duties of this position with and provided the above-named employee a copy of this duty statement.

Supervisor's Name (Print): Shahab Khoshmashrab

Supervisor's Signature:_____ **Date:** _____