



MANAGER OF ELECTRICAL ENGINEERING

JC: EF233
PB: 10
FLSA: Exempt

BU: 95 (NR)
Created: May 2006
Revised: June 2019

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are **not** intended to reflect all duties performed within the job.*

DEFINITION

Under general direction, manages and oversees the electrical engineering division of the Maintenance and Engineering Department at the District. Manages assigned activities with other divisions, departments and outside agencies; performs related duties as assigned.

CLASS CHARACTERISTICS

This is the full-scope managerial level classification is responsible, through subordinate professionals, for managing electrical engineering activities throughout the District, whether accomplished by District or contract staff, and is accountable for accomplishing division goals and objectives and for furthering District goals and objectives within general policy guidelines. This classification is distinguished from the Deputy Director of Electrical and Mechanical Engineering in that the latter has overall responsibility for traction power, electrical and mechanical design and construction activities throughout the District.

REPORTS TO

Group Manager of Electrical and Mechanical Engineering or designee.

EXAMPLES OF DUTIES – *Duties may include, but are not limited to, the following:*

1. Manages and oversees the activities and operations of the Electrical Division within the M&E Department. Coordinates assigned activities with other divisions, departments and outside agencies.
2. Oversees the design work the electrical system rehabilitation, maintenance, and construction projects to ensure technical and code conformance to established standards.
3. Manages and participates in the development and implementation of goals, objectives, policies and priorities for assigned programs; recommends and administers policies and procedures.
4. Monitors and evaluates the efficiency and effectiveness of service delivery methods and procedures; recommends, within departmental policy, appropriate service and staffing levels.

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5. Manages and oversees the work plan for assigned staff; assigns work activities, projects and programs; reviews and evaluates work products, methods and procedures; meets with staff to identify and resolve problems.
6. Manages and oversees electrical system rehabilitation and other contracts, including engineering consultant contracts, electrical engineering projects; including the District's System Rehabilitation, Security, Cathodic Protection Programs; reviews and approves final project plans, specifications and cost estimates.
7. Directs the preparation of plans, specifications, cost estimates, requests for proposals and bid documents for District electrical engineering projects.
8. Monitors developments and legislation related to assigned area of responsibility; evaluates impact upon district operations; recommends and implements equipment, practice and procedural improvements.
9. Selects, trains, motivates and evaluates assigned personnel; provides or coordinates staff training; works with employees to correct deficiencies; implements discipline and termination procedures.
10. Oversees and participates in the development and administration of the division's annual budget; participates in the forecast of funds needed for staffing, equipment, materials and supplies; monitors and approves expenditures; implements adjustments.
11. Serves as the liaison for the Electrical Division with other divisions, departments and outside agencies; provides technical assistance to the Legal Department and serves as an expert witness; negotiates and resolves sensitive and controversial issues.
12. Oversees electrical engineering project contracts including progress reviews, payments, claims, submittals, and correspondence.
13. Serves as staff on a variety of boards, commissions and committees; prepares and presents periodic and special reports regarding division activities to management staff or other departments and other necessary correspondence.
14. Directs the preparation of and approves final plans, specifications, cost estimates, requests for proposals and bid documents; conducts or directs analytical studies.
15. Responds to and resolves difficult and sensitive citizen inquiries and complaints; responds to emergency situations related to safe operation of the electrical and mechanical equipment in the District.

QUALIFICATIONS

Knowledge of:

- Principles and practices of electrical engineering
- Principles and practices of project scheduling and management
- Principles and practices of program development and administration
- Principles and practices of budget preparation and administration

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- Principles and practices of procurement
- Electrical distribution systems
- Construction materials, methods and equipment used in electrical and mechanical engineering projects
- Principles and practices of contract and construction management
- Principles of supervision, training and performance evaluation
- Related building codes, regulations and provisions
- Related Federal, State and local laws, codes and regulations

Skill/Ability in:

- Overseeing and participating in the management of a comprehensive electrical engineering program
- Selecting, supervising, training and evaluating staff including outside consultants
- Project management
- Participating in the development and administration of division goals, objectives and procedures
- Planning, organizing, directing, reviewing, and evaluating the activities of professional staff and contract consultants on assigned engineering projects
- Preparing and administering large program budgets and contracts
- Preparing clear and concise administrative and financial reports
- Preparing engineering project feasibility studies and cost estimates
- Analyzing problems, identifying alternative solutions, projecting consequences of proposed actions and implementing recommendations in support of goals
- Researching, analyzing and evaluating new service delivery methods and techniques
- Interpreting and applying Federal, State and local policies, laws and regulations
- Communicating clearly and concisely, both orally and in writing
- Establishing and maintaining effective working relationships with those contacted in the course of work

MINIMUM QUALIFICATIONS

Education:

Bachelor's degree in Electrical Engineering or a closely related field from an accredited college or university.

Experience:

Five (5) years of (full-time) professional verifiable electrical power engineering or related experience which must include two (2) years of supervisory experience.

License or Certificate:

Registration as a professional electrical engineer in the State of California

WORKING CONDITIONS

Environmental Conditions:

Office environment; exposure to computer screens; field environment; construction site environment; exposure to heat, cold, moving vehicle, electrical energy and inclement weather conditions.

Physical Conditions:

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May require maintaining physical condition necessary for walking, standing or sitting for prolonged periods of time.

BART EEO-1 Job Group: 0500 – Executives/Managers

Census Code: 0300 – Architectural and Engineering Managers

Safety Sensitive: No