

MAJOR FUNCTION

This is highly skilled technical and supervisory work directing employees engaged in the maintenance of pneumatic, electronic, and digital and distributed controls, power plant electrical high and low voltage (AC & DC) systems, medium voltage switchgear, metering, transformers, motors, generators, internal communication systems, instruments, associated electrical equipment and historical data recording equipment. This employee also oversees the installation, testing, repair and calibration of electrical systems, instrumentation and controls on electric generating units. Work is performed in accordance with established policies and procedures under the general supervision of the Assistant Plant Manager; however, the incumbent is expected to exercise considerable independent judgment and initiative in the performance of work tasks. Work is reviewed through observation, reports, and by results obtained.

ESSENTIAL AND OTHER IMPORTANT JOB DUTIES**Essential Duties**

Supervises and/or performs the repair or preventive maintenance on power plant electrical and instrument/control systems including, distributed, electronic, hydraulic and pneumatic control and monitoring systems which encompass: analog and digital data acquisition systems, electronic, hydraulic, and pneumatic process chart recorders; flow, pressure, temperature and level transmitters and meters, special purpose water analysis and treatment equipment, environmental monitoring devices, high and low voltage (AC & DC) electrical systems, switch gear, relays, motors, transformers, closed circuit television cameras and monitors in-house telephone and public address systems, combustion and steam turbine system controls, and various temperature detector devices. Remains current on latest equipment and technology. Supervises and/or performs vibration tests conducted on pumps, fans, turbines and associated equipment. Effectively utilizes available manpower to ensure preventative, corrective and outage maintenance activities are completed in a timely and professional manner. Maintains work records and associated documentation. Supervises, instructs and trains new employees. Provides instruction on safety procedures. Plans for new installations and checks specifications and prints. Purchases repair parts and new equipment. Confers with supervisors, design engineers, and manufacturer representatives as necessary. Recommends the hire, promotion, transfer, grievance adjustment, discipline, and dismissal of assigned staff. Conducts performance planning and evaluations, and recommends the approval or denial of step increases. Prepares budget projections for instrumentation requirements and submits to superior. Depending upon plant assignment (Purdum or Hopkins), maintains plant computer network, fiber optic links, cabling and associated linkages. Performs other work as required.

Other Important Duties

Assists power plant engineers with special projects and turbine, boiler, and auxiliary system testing. Researches, plans and implements various improvement projects for power control loops and related systems.

DESIRABLE QUALIFICATIONS**Knowledge, Abilities and Skills**

Thorough knowledge of the practices, procedures and techniques essential to the electrical and instrument/control maintenance of an electric generating plant. Considerable knowledge of digital controls systems and power plant high and low voltage (AC & DC) electrical systems. Through knowledge of the standards, methods, practices, tools and materials of the repair and maintenance of plant electrical and instrument/control equipment. Ability to plan, assign, supervise and lead the work activities of others. Ability to maintain required reports and records. Ability to communicate effectively, both orally and in writing. Ability to establish and maintain effective working relationships

as necessitated by the work. Ability to read blueprints. Ability and willingness to be on call for emergency situations. Skill in the use of personal computers and associated programs and applications necessary to successful job performance.

Minimum Training and Experience

Graduation from high school or an equivalent recognized certificate and six years of technical power plant experience that includes electrical and/or instrumentation and control systems; or two years of college or technical school in electronics technology and four years of technical power plant electrical and/or instrumentation and control system experience; or an equivalent combination of training and experience.

Necessary Special Requirements

Must be medically certified to wear a respirator and pass a respirator fit test prior to employment.

An employee assigned to the Purdom Power Plant, or who may be occasionally required to have unescorted access to the Port Facility portion of the Purdom Power Plant, as determined by the General Manager-Electric & Gas, must obtain Transportation Workers Identification Credentials (TWIC) within 90-days of employment, and must maintain such credentials throughout his/her period of employment in that capacity as a condition of continued employment.

Must possess a valid Class E State driver's license at time of appointment.

Individuals in this classification are considered essential during emergency and storm situations and must be able to work 16 hours per day for extended periods of time and may be required to be away from their family.

Individuals in this classification must be available to serve on-call and are subject to having to work outside of their assigned shift/schedule to meet operational needs.

Must be able to distinguish between red and green.

Established: 12-02-99
Revised: 08-01-00
05-05-04*
06-16-08
02-09-11
09-08-19
09-23-19
01-02-20