

ELECTRICAL SPECIALIST - 635

DEFINITION OF WORK

Under immediate supervision, performs difficult technical and skilled work in the installation, modification, repair and maintenance of all electrical equipment and controls in the water and sewer system; does related work as required.

EXAMPLES OF WORK

Trouble-shoots, inspects, services and repairs electrical equipment and AC, DC control systems, including variable speed controls, solid state electronic devices, microwave components, telemetering devices and all types of motor starters; maintains and services control system of engines driving generators and parallel power generation by diesel engines involving proper phasing, cycling and synchronizing of these engines; maintains and services variable speed pump control systems (solid state) as well as the electrical system and components; requisitions orders and maintains an adequate supply of electrical and electronic parts and devices; makes reports of malfunctions and makes recommendations to water and sewer superintendent for improving equipment and its operation and maintenance; exercises responsibility for emergency calls at night or on weekends.

EMPLOYMENT STANDARDS

Education and Experience: Any combination of education and experience equivalent to a high school diploma, supplemented by advanced technical courses in electronics or electrical systems and considerable experience in the repairs and maintenance of equipment.

Knowledge, Skills and Abilities: Comprehensive knowledge of installation, maintenance and repair of sophisticated electrical systems and equipment; ability to use test equipment such as recording ammeters, voltage testers, induction relay checkers, etc; ability to perform complex operations such as wiring, testing, analyzing and troubleshooting from schematic diagrams or instruction manuals; ability to diagnose electro-mechanical trouble in generators, motors, etc.; ability to select and specify electrical items to be ordered from manufacturers' manuals.

SPECIAL REQUIREMENT

Possession of a Journeyman Electrical License.

