PLANT MAINTENANCE TECHNICIAN

NATURE OF WORK

This is specialized skilled work of a technical nature in the maintenance and repair of treatment and pumping instrumentation, mechanical equipment and electrical systems utilized in water and wastewater treatment plants and pumping stations.

Work involves inspecting, servicing, calibrating and maintaining sophisticated electrical systems, telemetering devices, monitoring instruments and mechanical equipment utilized in the operation of wastewater and water treatment plants and pumping stations. Work includes analyzing and diagnosing mechanical and electrical/electronic equipment malfunctions, estimating manpower, materials and supplies needed to repair equipment and repairing faulty plant systems. An employee in this class provides training and supervisory guidance to plant maintenance crews when assigned and is responsible for maintaining records of inspection and repair activities. Duties also include the planning, scheduling and promulgation of a preventive maintenance program for all plant equipment. Work requires considerable independent judgment and the exercise of specialized maintenance skills of a highly technical nature due to the sensitivity and required accuracy of plant equipment operation. Work assignments are received in the form of oral and written instructions. Work is reviewed by an administrative supervisor through observation, conferences and the effective and accurate operation of the equipment serviced.

ILLUSTRATIVE EXAMPLES OF WORK

Inspects public utility plants and pumping stations to determine operating conditions and needed repairs and performs necessary repair or preventive maintenance work.

Inspects, repairs, maintains and adjusts to proper and accurate operation a wide range of public utility treatment equipment such as lime feeders, telemeter transmitters and receiving instruments, cathodic protection equipment, summation instruments, electrical systems, pumps, drives, mechanical systems and related equipment.

Prepares requisitions for supplies and repair parts based on evaluation of maintenance needs.

Prepares activity reports and maintains preventive maintenance and repair work records as required.

Provides training and supervisory guidance to assigned plant maintenance work crews when assigned.

Performs related work as assigned.

DESIRABLE KNOWLEDGE, SKILLS AND ABILITIES

Considerable knowledge of telemetering systems.

Considerable knowledge of methods and techniques used in the repair and maintenance of a variety of mechanical and electrical equipment used in public utility treatment plant operations.

Considerable knowledge of the occupational hazards and safety precautions of the trade.
Skill in the use of mechanics' tools peculiar to the repair and maintenance of treatment plant equipment.

Ability to make inspections to determine operating conditions and needed repairs of plant and pumping instrument and treatment equipment.

Ability to read and understand blueprints, construction diagrams and schematics.

Ability to adapt available tools and repair parts to specific maintenance problems.

Ability to lead and instruct skilled subordinates.

Ability to work from blueprints, pencil sketches, schematics or written or oral instructions.

Ability to effectively communicate clearly and concisely, orally and in writing.

Ability to establish and maintain effective working relationships with employees as necessitated by the work.

**MINIMUM TRAINING AND EXPERIENCE**

High school graduate or GED equivalency supplemented with some technical course work in mechanical and electrical systems with one year experience at the journeyman level in the maintenance and repair of water and/or wastewater treatment equipment, monitoring instruments, electrical devices and mechanical systems.

**NECESSARY SPECIAL REQUIREMENTS**

Possession and maintenance of a valid State of Florida Commercial Drivers License, specific class and endorsements to be determined by the department.

Date Revised: 11/00, 3/96
Date Issued: 10/71
City of St. Petersburg