

DEPARTMENT: WASTEWATER TREATMENT PLANT
CLASSIFICATION: COMPETITIVE
APPROVED: 2/21/96

WASTEWATER TREATMENT PLANT INSTRUMENT TECHNICIAN
(North Tonawanda)

DISTINGUISHING FEATURES OF THE CLASS: The work involves responsibility for performing highly technical work in the inspection, maintenance, repair and replacement of electric instrumentation and electronic devices utilized in a modern wastewater treatment plant. The work is performed under general supervision with considerable leeway allowed for the use of independent judgment in carrying out the technical details of the work. Supervision may be exercised over the work of plant maintenance and operational personnel on individual projects. Does related work as required.

TYPICAL WORK ACTIVITIES:

Installs, inspects, adjusts and repairs electrically, hydraulically, electronically and pneumatically activated meters, gauges and other recording, regulating and controlling instruments necessary for the proper operation of a modern wastewater treatment plant;

Makes periodic tests of and overhauls all control room electrical and electronic equipment according to schedule to assure continued operation;

Works with supervisors in establishing priorities and setting up a preventative maintenance and repair schedule for all instrumentation equipment including but not limited to:

1. Controllers
2. Interface Equipment
3. Indicators
4. Recorders
5. Integrators
6. Solid State Logic
7. Bubblers, flow meters, probe sensors
8. Controls, AC/DC

Calibrates equipment using a variety of testing devices to correlate instruments with established standards;

Informs superiors of major repairs required and recommends the purchase of new equipment, and reports when maintenance or repair work requires outside technical assistance;

Supervises other plant maintenance personnel in routine inspection, repair and maintenance of control room equipment;

Prepares reports and keeps records on all instrumentation repair and maintenance work performed.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Good knowledge of the methods, materials, tools, equipment and procedures used in the installation, repair and maintenance of electronic and electrical wastewater treatment plant equipment;

Good knowledge of the basic principles of electronics and electricity;

Ability to make repairs and adjustments to complex electronic and electrical equipment;

Skill in the use of manual and power tools;

Ability to work from diagrams, plans and specifications;
Ability to follow complex written and oral directions;
Mechanical aptitude;
Physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Either:

- a. Graduation from a regionally accredited or New York State registered college with an associate's degree in electronics, electronic technology or a closely related field and two years of experience in the maintenance, repair and installation of complex electronic or electrically operated equipment; or
- b. Graduation from high school or possession of a high school equivalency diploma and four years of experience as described in (a); or
- c. An equivalent combination of training and experience as defined by the limits of (a) and (b).