Terrebonne Parish Consolidated Government

JOB DESCRIPTION

POSITION TITLE……….…:	Instrumentation Technician
DEPARTMENT……………….:	Public Works
DIVISION……………………...:	Pollution Control-Treatment
CLASSIFICATION/GRADE….:	Instrumentation Technician/110
REVISED………………………:	03/2017
REPORTS TO…………………:	Sewerage Superintendent - Treatment
REVIEWED……………………:	03/2017
WAGES………………………...:	Hourly

SUMMARY:

Work requires the application of technical knowledge and standard procedures to test, adjust, repair and maintain metering, instrumentation, mechanical and various control devices relating to all associated equipment at all Wastewater Treatment Plants (WWTP). The employee is responsible for maintaining an equipment history data file to reference new installations, deletions, adjustments, repairs and maintenance performed on all electrical and mechanical systems. Work may be generated through scheduled maintenance inspections, equipment malfunctions, and discrepancy report forms/work orders submitted to other maintenance personnel. Work is perform with considerable independence under general supervision, and directed towards continuous plant operation. With this goal in mind, the Instrumentation Technician may be called upon to assist various trades within the plant work structure.

BASIC FUNCTIONS:

1. Be aware of related safety precautions within the electrical/mechanical trades and the utility industry in general.
2. Be capable of understanding and following oral/written instructions, and comprehending plant terminology and color codes.
3. Ability to interpret and work from blueprints, diagrams, schematics and sketches.
4. Inspects, adjusts, modifies, repairs and/or replaces components to the controls and instrumentation of the WWTP main and auxiliary systems.
5. Instrumentation, both metering and gauge functions, relate to various consumptions, flows, pressures, temperatures and volumes.
6. Maintain and repair pumps and equipment at all WWTP facilities.
7. Supervise all mechanical and electrical personnel.
8. Perform preventative maintenance on all equipment.
9. Ability to serve as a mentor to other mechanical and electrical personnel of the Division.

OTHER REQUIREMENTS:

1. Knowledge of the electrical, electronic and mechanical principles governing the functioning of control systems and instruments.
2. Knowledgeable of the operation and troubleshooting of Variable Frequency Drive's (VFD's).
3. Knowledge of the methods, tools and equipment used to test, maintain and repair control systems and instruments in accordance with prescribed standards.
4. Knowledge of the inter-relation of the various components that make up WWTP control systems.

5. Ability to understand and apply information of a technical nature in testing and maintaining control systems and instruments properly.
6. Knowledge of Supervisory Control and Data Acquisition (SCADA) system and Programmable Logic Controllers (PLC's).
7. Ability to formulate and carry out scheduled programs of inspection and maintenance and to keep systematic records of performance.
8. Know the location of all emergency generators, emergency battery and egress lighting system circuitry, components and how each system is operated, interconnected and fused.
9. Be physically capable of performing labor-intensive tasks.
    a. Light and heavy lifting up to 50 to 60 lbs.
    b. Climbing ladders/stairways and working off of scaffolding, building structures and inside enclosed access areas.
10. Willingness to assist during emergency situations and fill-in, as required.

EDUCATION/EXPERIENCE:
1. High school diploma or any equivalent certification.
2. Formal technical training or experience in electrical and mechanical systems with some pneumatic and hydraulic system controls and instrumentation.
3. Experience within the Instrument Technician fields a plus.
4. Any equivalent combination of education, training and/or experience may substitute.
5. Has acquired or ability to obtain a Wastewater Treatment Class IV State Certification.