

JOB TITLE: Electrician

DEPARTMENT: Maintenance

DIVISION: Wastewater

LOCATION: Central Treatment Plant/ As assigned

EXEMPT: No

REPORTS TO: Electrical Foreman/ as assigned

OTHER REQUIREMENTS: Must be available to work "on-call" and overtime

SUMMARY: Performs and assists in the inspection, installation, repairing, troubleshooting and maintenance of electrical operating and control systems for machinery and equipment, lighting, power distribution, and other electrical apparatus in use throughout wastewater treatment plant, pump stations and other locations by performing the following duties.

ESSENTIAL DUTIES & RESPONSIBILITIES: Include the following and others as assigned.

Performs and assists in visually inspecting and testing electrical apparatus, machinery and equipment, and observes mechanical devices in operation.

Inspects and repairs electrical wiring, fixtures, appliances, motors, generators, pumps, power circuits, and controllers of machines.

Installs, maintains, inspects, repairs, and services light feeders, generating and control equipment, relays, transformers, motors, pumps, switches, outlets, signal systems, and other electrical wiring, cables, fixtures of varied types.

Using various types of test equipment such as ammeters, voltmeters, and ohmmeters and other apparatus, performs and assists with performing tests to detect malfunctions and discusses results with supervisor or other workers to help diagnose problem and make repairs.

Makes minor emergency electrical repairs, fixes malfunctions and breakdowns and inspects work in progress and completed work for defects, fire hazards or other unsafe conditions.

Performs and assists in dismantling of defective systems and controls and installing new or repaired parts.

Performs and assists with troubleshooting and repair of industrial electrical apparatus including rotating equipment, power distribution and control systems up to 13.8kv level using schematics, diagrams and drawings.

Performs preventive maintenance duties including the preparation of accurate records and documentation.

Assists with preparation of reports and performs other assigned tasks.

Complies with applicable safety and health policies and procedures and performs other duties as assigned.

EDUCATION and/or EXPERIENCE: High School Diploma or General Equivalency Diploma (GED); completion of a four (4) year vocational or technical school electrical education/training or

apprentice certificate.

LICENSES: Must possess valid state of residence Driver's License and meet Authority insurance requirements. **Must possess a Qualified Journeyman Electricians License issued by the New Jersey Division of Consumer Affairs.**

MATHEMATICAL SKILLS: Ability to calculate figures and amounts such as ratio, proportions, percentages, area, circumference, weight and volume.

REASONING ABILITY: Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to interpret technical instructions in mathematical or diagram form. Ability to analyze problems involving electrical installation, inspection, maintenance, and repair work, and develop effective work methods.

OTHER SKILLS and ABILITIES: Basic knowledge of and ability to repair, maintain and troubleshoot industrial electrical equipment and apparatus, including rotating equipment and power distribution and control systems up to 13.8kv level. Working knowledge of and ability to implement approved methods, code requirements and accepted standards and safety practices for industrial and authority electrical maintenance. Basic knowledge of and ability to use hand and power tools of the trade as well as some specialized tools and equipment such as a Megger and Medium voltage testing equipment. Working knowledge of rigging and climbing techniques, wire-pulling and splicing. Ability to read simple electrical blueprints and diagrams. Ability to understand and follow instructions and be knowledgeable of plant safety procedures, rules, regulations. Ability to work harmoniously with associates and supervisors. Ability to receive and give oral or written instructions and training. Must be able and willing to utilize appropriate safety equipment/PPE required in the performance of maintenance duties.

PHYSICAL DEMANDS: While performing the duties of this job, the employee is frequently required to stand; walk; use hands to finger, handle, or feel objects, tools, or controls; reach with hands and arms; climb or balance; stoop, kneel, crouch, or crawl, talk, hear and smell. The employee is occasionally required to sit. The employee must regularly lift and/or move up to 25 pounds, frequently lift and/or move up to 50 pounds, and occasionally lift and/or move up to 75 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

WORK ENVIRONMENT: While performing the duties of this job, the employee regularly works near moving mechanical parts, around high temperatures and in outside weather conditions. The employee frequently works in high, precarious places, confined spaces, manholes and open pits, open water vessels and channels. The employee is occasionally exposed to fumes, noxious odors or airborne particles, toxic or caustic chemicals, risk of electrical shock, and vibration. The noise level in the work environment is usually moderate.

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Please contact Matthew Wiater at mwwiater@mcua.com for additional information regarding salary and benefits as well as to submit resume and application.