



## Position Description

Job Title:	Authority Electrician
Department:	All Authority Properties
Supervisor:	Designated Supervisor or Alternate

### **Job Summary**

The Electrician performs skilled electrical work in the installation, maintenance, overhaul, repair and testing of power generation and distribution equipment, rotating equipment and their associated digital and analog controls including micro-processor based controls, devices and systems; utility protective relays and controls; fiber optic cable, terminations and devices; communications and signaling systems; standby and emergency power sources, and other electrical equipment found in the Authority's facilities; and may serve as a lead worker for other employees engaged in this work.

### **Specific Duties:**

1. Repair and trouble shoot all equipment at all Authority properties including the Water Treatment Plants, the North and South Shore Distribution Centers, Reis Run Service Center, the Administration Building, the water tanks, the reservoirs, and the booster stations.
2. Maintain equipment such as the pneumatic and hydraulic systems, the pumps and telemeters, and the heating and air conditioning.
3. Maintain the wells located on Davis and Neville Islands.
4. Maintain all electrical systems including the 4160v, the 480v, & 12,470v the single and three phase, and the AC/DC Electronic Plant Computer Systems.
5. Maintain the lighting systems at the office buildings, the plant, the booster stations, the distribution centers, the tanks, and the reservoirs. This maintenance may require climbing of ladders.
6. Design and install different types of apparatus for the plant, booster stations, distribution centers, and the office buildings.
7. Schedule and work with various outside consultants, contractors, and other professionals; and order materials.
8. Read, interpret, and modify electrical schematics.
9. Supervise operation and maintenance personnel as required.
10. Operate Authority boats and vehicles: must be able to swim.
11. Prepare Authority reports and budgets.

12. Operate Authority equipment; both power and manual.
13. On call 24 hours per day, seven days per week for emergencies such as failure of pumps, motors, telemetric equipment, and various feed equipment.
14. Design and install Christmas decorations at the Administration Building.
15. Perform additional duties as assigned by the designated supervisor or alternate.

The intent of this job description is to provide a representative summary of the major duties and responsibilities performed by the incumbents of the job. Incumbents may be required to perform job related tasks other than those specifically presented in this description.

### ***Qualifications and Job Requirements***

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

#### **Education and/or Experience**

Associate's degree (A.A.) apprenticeship or equivalent from two year school; at least five years industrial electric experience and/or training; or equivalent combination of education and experience.

#### **Language Skills**

Ability to read and interpret documents such as safety rules, operating and maintenance instructions, and procedure manuals. Ability to write routine reports and correspondence. Ability to speak effectively before groups of customers or employees or organization.

#### **Mathematical Skills**

Ability to work mathematical concepts such as probability and statistical inference; and fundamentals of plane and solid geometry and trigonometry. Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical situations.

#### **Reasoning Ability**

Ability to define problems collect data, establish facts, and draw valid conclusions. Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables.

#### **Other Skills and Abilities**

HVAL experience desirable and a thorough knowledge of electronic circuits essential. Formal training in computer applications is desirable. Must be able to swim.

### ***Physical Demands***

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to stand; walk; use hands to finger, handle, or feel objects, tools, or controls; reach with hands and arms; and climb or balance. The employee frequently is required to sit; stoop, kneel, crouch, or crawl; and talk or hear. The employee is occasionally required to taste or smell.

The employee must regularly lift and/or move 25 to 50 pounds, and occasionally lift and/or move up to 100 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***

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee regularly works near moving mechanical parts and in outside weather conditions. The employee is frequently exposed to wet and/or humid conditions and fumes or airborne particles. The employee occasionally works in high, precarious places and is occasionally exposed to toxic or caustic chemicals, risk of electrical shock, and vibration.

The noise level in the work environment is usually very loud.