



**Job Title:** I&C Technician

**Reports To:** O&M Manager

**Location:** Morris

### **Overview**

The purpose of this position is to provide technical assistance and engage in the performance of delegated projects, procedures or tasks, involving the installation, testing, repair and maintenance of all types of electronic, pneumatic, hydraulic or electrical equipment, associated with the instrumentation and the power plant control systems. Provide services that will maximize the reliability and efficiency of the generating stations control systems and auxiliary equipment.

### **Job Duties**

- Develop procedures in the calibration and maintenance of plant instrumentation and process control systems.
- Gives technical assistance to instrumentation and controls personnel in the use of procedures and evaluate the results achieved.
- Continuously review control strategies to maximize plant efficiency, reliability and flexibility.
- Assist in developing and carrying out performance tests and interpreting results.
- To perform research and investigation of equipment failures or other chronic problems in order to develop and recommend solutions concerning plant control systems.
- Review specifications of newly acquired equipment. Coordinate the operational testing and the verification of quality and quantity of such equipment in order to make recommendations concerning the equipment acceptance.
- Keep abreast of power plant engineering techniques and technologies, and to research and develop corporations or expansions of control systems, with emphasis on logistics, economy and service.
- To review and provide appropriate input concerning any recommendations about practices, procedures, system requirements or improvements in order to facilitate maintenance schedules, short or long rang plans.
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### **Skills Necessary**

- Conceptual understanding of plant systems.
- Conceptual understanding of electrical theory.
- Working knowledge of water treatment system.
- Comprehensive understanding of electrical system and motor control centers.
- Working knowledge of high voltage switchgear and switchyard equipment operation and maintenance.
- Working knowledge of cable pulling techniques, conduit installation practices, and high voltage cable termination methods.
- Knowledge of plant clearance procedures.

- Fundamental knowledge of computer hardware system-electric application.
- Cognition of software system utilized by plant.
- Comprehension of complex electrical wiring diagrams and control schematics.
- Communication and human relation skills.
- Ability to use light duty equipment.
- Ability to use the following test equipment:
  - Deadweight Tester
  - Volt OHM Amp Meter
  - Thermocouple Calibrator
  - Vibration Tester
  - Multiple Hydraulic Pressure Tester
  - Wallace Tiernan Pressure Calibrators
  - Oscilloscope
  - Transmation
  - Manometer
  - AMP Probe
  - Sand Bath

### **Physical Requirements**

Performance of essential functions in the I & C Technician Classification require the following:

- Ability to perform manual tasks including but not limited to:
  - Shoveling
  - Raking
  - Operation of hand tools
  - Manipulation of valves.
- Ability to lift at least 80 lbs.
- Ability to bend and maneuver in tight, cramped quarters.
- Ability to work in hot, noisy and dark environments. Ability to work in high places.
- Ability to work with and wear respiratory protection.
- Ability to communicate clearly with plant personnel. Ability to give and receive instructions over a radio and P.A.
- Ability to see clearly; safely and readily identifying the labels, gauges, dials and indicators typically encountered in performing job duties.
- Ability to read, write and understand instructions and procedures.

### **Education**

High School graduate or equivalent plus Associate Degree in I & C or Electrical Maintenance or equivalent experience.

### **Related Experience**

Minimum of (5) years experience as journeyman electrician and or I & C experience (or) two year degree or equivalent training