



**Job Title:** I&C Technician

**Reports To:** Maintenance Manager

**Location:** Allendale, South Carolina

**Summary:** This position is responsible for installing, maintaining, testing, and troubleshooting of instrumentation, controls, and electrical /electronic system at a solid fuel steam turbine power generation plant. This position requires a high degree of knowledge on instrumentation, controls, low, medium and high voltage switchgear, transformers, generators, protective relays, motor control centers and continuous emissions monitoring systems (CEMS). This person will also advise and train Operations and Maintenance on instruments, controls and electrical equipment.

**Job Description:**

With safety of yourself and all those around you as the highest priority, the Instrument and Controls Technician is expected to:

- Calibrate, test, maintain, troubleshoot and install all power plant instrumentation, control systems and electrical equipment.
- Perform maintenance on motor control centers, motor operated valves, generators, excitation equipment and motors.
- Perform preventive, predictive and corrective maintenance on equipment, coordinating work with various team members.
- Design and install new equipment and/or system modifications.
- Troubleshoot and perform maintenance on DC backup power equipment, process controls, programmable logic controls (PLC) and emission monitoring equipment.
- Schedule, coordinate, work with and monitors contractors on specific tasks as required.
- Train other team members in the areas of instrumentation, control, and electrical systems.
- Perform Operations tasks on an as-needed basis and other tasks as assigned.
- Be available within a reasonable response time for emergency call-ins and overtime.
- Provide an acceptable off-hour contact cell phone number or carry a company provided cell phone.
- Respond to alarms in a timely manner; operate firefighting equipment as necessary and within reason.
- Perform other comparable duties during plant shutdowns.
- Maintain professional competence in the field of power plant operations.
- Maintain a safe work environment through job planning, housekeeping and identification and correction of hazards.
- Adhere to all applicable health & safety, environmental and administrative policies, procedures and regulations.
- Attend training, implement and pursue personal development goals.
- Other duties as assigned.



## **Requirements:**

### *Education*

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

### *Experience*

Minimum of (5) years' experience as an I&C technician and/or Electrician in a power plant environment, preferably with a strong electrical background up to and including voltages up to 115 KV.

### *Technical Skills*

- Demonstrated knowledge of electrical equipment, electronics, schematics, basics of chemistry and physics, and controls and instrumentation.
- Knowledge of safe work practices associated with a power plant environment.
- Ability to calibrate I&C systems and equipment, including analytic equipment.
- Ability to configure and operate various test instruments and equipment as necessary to troubleshoot and repair plant equipment including, but not limited to; distributed control systems, programmable logic controllers, motor control centers, transformers, generators, and continuous emissions monitor (CEM) systems.
- Ability to productively work independently and as an overall integral team member.
- Must have strong communication skills and the ability to effectively organize and facilitate process teams.
- Ability to understand contractual issues as they relate to plant operations and maintenance.
- Travel to other plant locations and to corporate may be required.
- Knowledge in Balance of Plant systems start-up, normal operation, emergency, and shutdown of plant.
- Thorough knowledge of equipment isolation and LOTO procedures.
- Experience responding to plant abnormal situations, alarms, and emergencies.
- Thorough knowledge of the location, purpose and proper use of the plant safety equipment.
- Experience aligning, switching, isolating, and paralleling electrical equipment and systems
- Ability to read and interpret mechanical drawings, electrical one-lines, logic drawings, technical manuals and P&ID's.

### *Work Process Skills*

- While engaged in company business, employees are expected to conduct themselves in a courteous business-like manner, showing respect and consideration for fellow employees and other site personnel, with a focus on servant leadership;



- Communicate work related issues along with recommended solutions to your coworkers and/or supervisor in a timely and professional manner;
- Comply with all Atlantic Power policies and procedures.

#### *Physical Requirements*

- May be exposed to hazards associated with power and hand tools, dust, fumes, high pressure steam, high temperatures and confined spaces; and may be regularly subject to external environmental conditions such as cold, heat dust, snow or noise and fumes from equipment or chemicals.
- While performing the duties of the job, the employee is regularly required to climb stairs, ladders, and work on elevated platforms. Must be able to stand for long periods of time, operate objects, tools or controls and reach with hands and arms. Must be willing to tolerate awkward and stretched positions while stooping, crouching, or kneeling to perform daily duties.
- Work overtime, and irregular hours as needed to support reliable operation of the facility. From time to time the working hours will be determined on short notice based on plant requirements.
- Ability to handle quick changing situations under stress and to work extended hours on short notice if and when required.
- Must be able to lift 45 pounds overhead and 75 pounds from the floor to 36 inches.
- Must be willing to travel to other facilities if needed
- Specific vision abilities required by this job include close vision, distance vision, color distinction with vision, peripheral vision, depth perception and the ability to adjust focus.
- Noise levels are moderately loud and may vary in various areas of the plant site.
- Must be able to work around high voltage.
- Must be able to work in Confined Spaces;
- Must have manual dexterity and ability to manipulate keyboards.
- Must be capable of wearing respirators and working in dusty environments, such as Confined Spaces.