



Job Title: Instrumentation and Controls Technician (I & C)
Reports to: I & C Area Manager, Cokenergy
Location: East Chicago, IN (Northwest)
Compensation: Competitive salary plus bonus potential

Primary Energy Overview

Primary Energy is an independent industrial energy provider of electricity, steam, hot water and chilled water that focuses on building, owning and operating inside the fence industrial energy facilities under long term contracts. Our expertise is the effective utilization of byproduct fuels that would otherwise be flared, capturing waste heat and converting it into useful thermal products and creating ultrahigh efficiency combined heat and power facilities. Thoughtfully conceived industrial energy projects enhance the long-term financial health of our host mills, provide sustainable, low cost energy and provides a highly reliable source of energy. Our goal is to be the lowest cost, highest value 3rd party energy provider for the industrial energy market place while making a reasonable return on our investment.

Position Summary

The I & C Technician is responsible for completing a wide range of instrument and control tasks related to all systems. The Technician will be a key resource for both preventative maintenance as well as break-in maintenance activities for instruments, measurement devices, and control devices. Daily activities include installation, troubleshooting, testing, and repair of these devices, frequently working with other electrical or mechanical craft depending on the scope of the job. The Technician reports directly to the I & C Area Manager, but also coordinates closely with others. Although work is normally completed during a 8-hr/day 40-hr week, additional work hours may be required to support high-priority unplanned maintenance and planned or forced outages.

Education and Requirements:

- Electrical/electronic science degree or Instrumentation Apprentice program completion
- Training on industry-standard DCS and PLC systems - knowledge of Rockwell, Allen Bradley and/or Modicon PLC's is preferable
- Working knowledge of VFD's and various instrumentation such as temperature, pressure transmitters, flow meters, proximity probes, and position sensors
- Ability to conduct root cause analysis and react accordingly
- Strong working knowledge of electrical, electronic, hydraulic and pneumatic controls, including the ability to troubleshoot these devices
- Some understanding with steam turbines, environmental control equipment, boilers, and water plant systems to assist with diagnosing control and measurement issues
- Some understanding with Maximo or computerized work management system
- Understanding with Smart Instrumentation (Hart) is a plus



- Some electrical understanding of equipment from 24 VDC up to and including 480VAC
- Understanding of environmental and safety regulations and compliance programs

Job Responsibilities:

- Plan, prioritize and perform process automation maintenance to maintain an optimum level of operation and efficiency in the production of steam and electrical power while supporting reliable operation of the boilers and the environmental system responsible for cleaning of waste gases from the metallurgical coke batteries and boilers.
- Work safely and is alert for unsafe acts and conditions while supporting appropriate actions to maintain a safe work environment for everyone on site
- Maintain good relationship and communications with all colleagues including Union Operators and Crafts
- Perform maintenance on the electrical systems, process control and automation systems and computer systems including installation, preventative maintenance, troubleshooting, testing, and calibration with documentation of the aforementioned
- Assist the Cokenergy Area Managers with routine electrical & mechanical engineering tasks including special projects
- Provide troubleshooting & maintenance support for distributive control system (DCS) Bailey Infi-90 Systems
- Provide troubleshooting support for programmable logic controllers (PLC's) including Rockwell ControlLogix and Schneider Electric Modicon
- Provide support for workstation computers & related equipment
- All responsibilities are completed within the prescribed expectations as established by the Primary Energy Management.
- Provide input into the annual budgeting process for maintenance related parts and materials
- Perform scheduled PM calibration of a variety of field instrumentation.
- Provide support of equipment from 24 VDC up to and including 480VAC
- Responsible for identifying and reporting to Area Managers and direct manager the necessary spare parts needed for effective plant operation or supporting improvement initiatives
- Order spare parts as identified and coordinated with direct Manager
- Observe and ensure plant policies and procedures while performing assigned tasks in safe and environmentally compliant manner
- Other assigned duties as may be necessary and agreed with Primary Energy Management.



Physical Requirements

Performance of essential functions for the I & C Technician position require the following on a daily basis:

- Ability to perform manual tasks including but not limited to:
 - Operation of hand tools
 - Manipulation of valves and manual handwheels
- Ability to lift at least 80 lbs.
- Ability to climb stairs and ladders
- Ability to bend and maneuver in tight, cramped quarters
- Ability to work in hot, noisy and dark environments
- Ability to work at elevation with appropriate fall protection
- 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 PA
- 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
- Ability to work in outdoor elements and weather
- Ability to work various hours for emergency coverage or extended outages
- Ability to work with limited supervision

Work Environment:

- Industrial plant environment with some office duties
- Exposure to industrial environmental conditions, which can include dust, chemicals, high noise levels, confined spaces and height limitations
- Normal business hours, some overtime and weekend work supporting facilities that operate 24/7/365