



**POSITION/JOB TITLE:** Reliability Engineer  
**DEPARTMENT:** Cokenergy  
**DIRECT SUPERVISOR:** O&M Manager  
**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, provides sustainable, low cost energy and provides highly reliable source of energy. Our goal is to be the lowest cost, highest value 3<sup>rd</sup> party energy provider for the industrial energy marketplace while making a reasonable return on our investment.

Cokenergy is a waste heat recovery power generation facility owned and operated by Primary Energy, providing power to the Cleveland-Cliffs Indiana Harbor steel fabrication facility in East Chicago Indiana. Cokenergy's combined heat and power facility recovers waste heat from an adjacent non-recovery metallurgical coke production facility and uses this waste heat to produce industrial power-grade steam and electrical power, as well as process steam, to Cleveland-Cliffs steel making operations. Cokenergy a first-of-a-kind facility that also responsible for the pollution control for the flue gas generated during the coking process.

### **POSITION SUMMARY**

The Reliability Engineer (RE) is responsible for directing the plant's preventative and corrective maintenance programs to ensure continuous availability and operation of equipment to maintain effective and efficient production of electricity and process steam. The RE oversees plant inspections, equipment repair and installation. The RE manages subordinates in planning day to day and long-term maintenance schedules and supervisor day-day maintenance activities. Ensures that project milestones/goals are met and adhere to approved budgets. The RE is also a subject matter expert on all equipment used in steam and electricity production including 16 Heat Recovery Steam Generators, 95 MW Extraction Steam Turbine, Fans, Pumps, Environmental Compliance equipment, specifically dry scrubbers, and all associated Balance of Plant equipment.

### **DUTIES & RESPONSIBILITIES (including but not limited to)**

- Leads plant staff, consultants, and testing companies to maintain optimal plant availability, profitability and performance.
- Manages evaluation and implementation of new and/or improved technologies or repair of existing equipment.
- Develops technical scopes of work for engineering and maintenance contractors.
- Develop and adhere to approved project cost budgets and schedules



- Assists in performance of compliance and acceptance testing.
- Assists in plant construction, commissioning and troubleshooting.
- Assists with root cause failure analysis exercises.
- Regularly coordinate and report activities to direct supervision, as well as provide management updates as required.
- Publish Weekly and monthly eDNA/Maximo based analytical reports using existing Excel based templates.
- Roughly 50/50 split of office time and field time, depending on project workload.

### **TECHNICAL SKILLS**

- Engages others in open and creative dialogue.
- Ability to problem-solve and provide solutions and ideas.
- Capability to lead problem-solving teams comprised of technical, operations, and outside consulting resources.
- Demonstrated ability to drive and support implementation of initiatives.
- Subject Matter Expert for Power Plant Equipment Operation.
- Mechanical engineering background and experience with HRSGs, Steam Turbine Generators and Dry FGD systems.
- Ability to write operating and maintenance procedures and develop diagnostic testing protocols.
- Ability to write technical scope, equipment scope of supply, work scope, and technical summary documentation.
- Proficient in IBM Maximo, MS Excel, Word, PowerPoint, eDNA (user) and Outlook software programs.

### **EDUCATION REQUIREMENTS / WORK EXPERIENCE**

BSME; Minimum 7 years of experience in Engineering, Operations, and Maintenance in the fossil fuel power/utilities.

### **REQUIREMENTS**

This position requires mobility in the field, and will involve regular walking, climbing stairs and ladders, and working at heights.

This document in no way states or implies that these are the only responsibilities of, and the duties to be performed by, the employee occupying this position.