

Job Description**Controls Engineer - Kemper County IGCC
Requisition Number MPC2000905**

State-Region Mississippi-Kemper County
Operating Company: Mississippi Power Company

Description**Controls Engineer****Kemper County IGCC Power Plant**

This posting is for a **Controls Engineer** position at Plant Ratcliffe (Kemper County) - a state of the art IGCC Integrated Gasification Combined Cycle (IGCC) plant located in De Kalb, MS in Kemper County.

Benefits:

- Competitive Pay
- Excellent benefits packages which includes:
 - Medical and dental coverage
 - Defined Benefit Pension plan
 - 401(k) plan with a generous company match
 - Bonus opportunities
 - Tuition Reimbursement
- Relocation assistance is available

DCS Engineer- Kemper Generating Facility

- This position is located in De Kalb, Mississippi.
- Position will be filled at Exempt Level 4 - 7 depending on successful candidate.

JOB SUMMARY

Kemper County Generating Facility, a state of the art IGCC Integrated Gasification Combined Cycle (IGCC) plant located in Kemper County, MS, is currently seeking candidates for the position of **DCS Engineer**. This position is accountable for providing technical direction for control systems, supporting process optimization efforts, program configuration, installation of systems, and troubleshooting system problems on distributed/process control systems. The incumbent will be responsible for providing ongoing inspection and evaluation of control systems and for determining the appropriate direction on design and performance improvements, upgrades, and other modifications to plant control systems. This individual will be a troubleshooting resource for process engineers and Operations.

JOB REQUIREMENTS

- Possess a mechanical, electrical, or chemical engineering degree and have a minimum of 5 years recent experience designing/programming a distributed/process control system at a power plant, IGCC, chemical plant or refinery – **Required**

- Extensive experience in electronics, instrumentation, program configuration, PLCs and distributed/process control systems – **Required**
- Demonstrated experience with control systems for fixed bed catalytic reactors, multistage separation processes (stripping, scrubbing, absorption) such as acid gas removal, sulfur recovery, and/or sour water processing – **Preferred**
- Process integration and optimization of multistage compressors – **Preferred**
- Budget experience – **Preferred**
- Project management experience – **Preferred**
- Must be flexible, forward-thinking and strategic-minded in relation to plant control system migrations to fit the future needs of the plant.
- Role model in Southern Style.
- Self-motivated, customer-focused, and having an excellent ability to work well with and develop teams.
- Be able to coordinate SIS requirements with end users and responsible Department Heads. Prepare operator and technical training materials and program as necessary to support ISA-84 – **Preferred**
- Work with all departments to ensure complete ISA-84 compliance, including auditing, training and expert advice as necessary. Communicate SIS requirements to design teams, plant departments and others as required – **Preferred**
- Ability to integrate field instruments, control systems, DCS and PLCs with SIS – **Preferred**
- Understanding/knowledge of DCS, PLC control systems and associated communication interfaces such as Modbus, Ethernet P2P, etc. – **Preferred**

JOB RESPONSIBILITIES

- Ensure that all controls work is done in a safe and efficient manner maintaining a Target Zero mindset.
- Provides technical direction for the maintenance, preventive maintenance, tuning and calibration activities necessary to ensure that control systems function properly. Maintain adequate and up to date backups of all configurations.
- Leads the design and installation of new equipment and the retrofit of existing equipment. Troubleshoot and develop solutions to repair plant control systems and system protection equipment.
- Performs periodic inspections of the control rooms to determine the status of equipment. Manage a preventive maintenance and calibration program for instrumentation and control systems. Develop and manage functional tests for control systems.
- Stays abreast of the state of the art technology, electrical equipment innovations, unit operations and maintenance procedures. Direct modifications, specifications, installation, and configuration of control systems as required.
- Provide feedback to management regarding problems associated with plant and system controls. Conduct investigations and RCAs to determine causes of trips and similar events and, when appropriate, develop measures to avoid reoccurrence.

BEHAVIORAL ATTRIBUTES

- Must be a self-starter capable of working with minimal supervision.
- Must be able to handle complex, pressure situations and be adaptable to a changing work environment.
- Must be able to support a 24/7 schedule, including holiday and back shift work when necessary.
- Must exhibit behaviors that are described in Southern Style.

Mississippi Power a subsidiary of Southern Company, serves southeast Mississippi. We have a history of customer and community service, economic development leadership, environmental stewardship and employee involvement.

With 4.4 million customers and more than 46,000 megawatts of generating capacity, Atlanta-based Southern Company is the premier energy company serving the Southeast through its subsidiaries. A leading U.S. producer of clean, safe, reliable and affordable electricity, Southern Company owns electric utilities in four states and a growing competitive generation company, as well as fiber optics and wireless communications.

Southern Company brands are known for energy innovation, excellent customer service, high reliability and retail electric prices that are below the national average. Southern Company and its subsidiaries are leading the nation's nuclear renaissance through the construction of the first new nuclear units to be built in a generation of Americans and are demonstrating their commitment to energy innovation through the development of a state-of-the-art coal gasification plant. Southern Company has been recognized by the U.S. Department of Defense and G.I. Jobs magazine as a top military employer and listed by DiversityInc as a top company for Blacks. The company received the 2012 Edison Award from the Edison Electric Institute for its leadership in new nuclear development, was named Electric Light & Power magazine's Utility of the Year for 2012 and is continually ranked among the top utilities in Fortune's annual *World's Most Admired Electric and Gas Utility* rankings. Visit our website at [HTTP://WWW.SOUTHERNCOMPANY.COM](http://www.southerncompany.com)

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Job Level Manager
Travel (Up to...) No
Job Field Engineering
Work Location(s)
5835 Highway 493
DeKalb 39328