COMMISSIONIING ENGINEER– ELECTRICAL

Background:

Our Data Center Commissioning team helps our client built sustainable, energy-efficient and state-of-the-art mission-critical data centre facilities around the globe.

You will be part of this global engineering team and with your technical expertise, you ensure compliance with codes and standards, functional requirements of the data centre and provide solutions to clients to meet their challenges.

As an Electrical Engineer, you will be involved in the development of test scripts, & testing of complex electrical infrastructure products & systems. You would be responsible for all aspects of commissioning through all phases of commissioning levels 1-5

Minimum Qualifications

- Bachelor's degree in Electrical Engineering or equivalent practical experience.
- Experience in installation, commissioning, testing, troubleshooting & maintenance of electrical distribution systems, from high voltage (HV) transformer to branch circuits.
- Experience with mission-critical facilities.

Preferred Qualifications

- Master's degree.
- Professional Engineer (PE) certification.
- Experience with engineering software packages.
- Knowledge of mechanical and control systems.
- Knowledge of large-scale data centers' electrical infrastructure systems.
- Ability to travel, both domestically and internationally

Responsibilities

Provides engineering and technical support to plan, schedule, coordinate and execute full life cycle commissioning of critical facilities. Participates in the MEP design process; witnesses the static and dynamic testing of complex mechanical, electrical and controls systems and operates the system in normal, maintenance and failure modes of operations by performing the following duties.

- Highly experienced working around live components, three-phase AC Power Systems (HV/MV/LV) and Direct Current (DC) power systems.
- Performs Test Procedures.

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- Prepare meeting minutes.
- Work with fundamental test equipment such as power quality analyzers and oscilloscope
- Interacts with contractors, interprets design and specifications.
- Knowledge of engineering principles.
- Thorough knowledge of your principle discipline with a strong understanding of mechanical equipment and principles.
- Ability to write functional performance test script methods and integrated systems test procedures
- Knowledge of electrical and mechanical system from an operations perspective
- Ability to interact/work and represent the client and maintain the highest professional standards.
- Conducts site observation surveys and prepares field reports on the status of projects and completion of projects with respect to compliance with the plans and specifications.
- Prepares punch list reports and determines corrective measures for on-site problems.
- Prepares general condition survey reports.
- Familiarizes oneself with codes, local project regulations, construction practices and the latest equipment functional concepts.
- Familiarizes oneself and obeys all the projects safety requirements including specific on-site regulations.
- Performs routine calculations.
- Participates in professional engineering associations and societies.
- Acts as a project coordinator with other field engineers, coordinating printing, presentation and administration procedures.
- Reviews project drawings and submittals.
- Develops MEP test procedures.
- Develops MEP operating procedures.
- Responds to RFI's when requested by PM Team.
- Performs various administrative duties.
- Understanding of commissioning levels and standards.
- Performs other duties as assigned

Similar work experience & Skills

Candidate must possess experience and must have knowledge of installation, commissioning, testing, troubleshooting & maintenance of heavy commercial/ industrial electrical

systems/subsystems. Candidate must possess hands-on experience and knowledge of following electrical systems

- Power supply systems/subsystems – HV / MV / LV
- Power distribution systems/units (high and medium voltage experience)
- Electrical Protection systems/schemes
- Transformers and generators
- Switchgear (PDUs, UPS wraparound, Distribution gear with source change functionality)
- UPS/ STS modules
- General understanding of modern power conversion systems such as transistor-based conversion
- Ability to interpret raw signal data and process same such as UPS/ generator waveforms etc.
- Control systems/ EPMS systems/ SCADA/ PLC
- Earthing & instrumentation
- Knowledge of load bank calculation
- Network & communication system knowledge such as BACnet, Modbus, Ethernet etc.

Industry

- ✓ Mission critical
- ✓ Data center
- ✓ Engineering

Employment type

- ✓ Full time

Skills (keywords)

- ✓ Commissioning
- ✓ Electrical Engineering
- ✓ Data Center
- ✓ Power Distribution
- ✓ Power Systems
- ✓ Circuits
- ✓ Low Voltage (LV)
- ✓ Medium Voltage (MV)
- ✓ High Voltage (HV)
- ✓ UPS systems