Construction Discipline Engineer-Field Engineer

\*\*Specific Discipline = (Mechanical, Piping, Electrical, Civil, Instruments and Controls) as determined by requestor

Position Description:

Field Engineer is responsible for planning and technical oversight of field construction activities within a specified discipline associated with procurement, fabrication, installation, modification and maintenance of systems and components. Coordinates with Design agencies to ensure timely issuance of new design or design changes. Walk down and review designs for constructability, resolve design problems encountered in the field during construction and meets with and discusses solutions with Design Engineers. Inspects / verifies materials, equipment, and construction workmanship and assures compliance with drawings, specifications and code requirements. Coordinates with Quality Control to ensure the installation meets the requirements.

Participates in turnover activities. Supports / participates in start-up and functional check out of equipment and systems.

Position requires a thorough understanding of Construction Engineering principles and ability to apply these principles to field conditions. Experience in the preparation of computer-based construction work execution plans (work Packages) including job specific hazards analysis, i.e. Asset Suite and Assisted Hazard Analysis or equivalent

Position may require a thorough understanding of Construction Electrical Engineering principles, ability to apply these principles to field conditions, knowledge of the National Electric Code (NEC), and procedure requirements. Thorough understanding requirements and experience in the preparation of construction work execution plans including performing job specific hazards analysis.

Position Responsibilities:

Design output constructability reviews

-Review design output and vendor documents

-Field walk down with design engineers

-Verify design constructability including procedure and code compliance

-Verify field conditions vs. Design output

-Verify material availability

-Submit constructability comments

-Track comments to resolution

-Support project team design review meetings

Field material take-off & procurement support

-Develop / expedite bill of materials (BOM)

-Track the progress / status of material delivery

-Coordinate delivery of material to the field

-Verification of received material vs. Ordered material

Work execution plan development

-Walk downs with craft supervision & support groups

-Develop installation sequence

-Generate work instructions

-Generate inspection and test records or coordinate with quality control

-Understand layout / survey needs and generate layout / survey requests

-Generate hazards analysis for field execution of construction scope

-Support/lead team hazard analysis review meetings

Generate or support the generation of job specific permits as required

-Lockout/tagout order

-Power services utilization permit

-Hot work

-Asbestos disturbance

-Confined space

-Radiological

-Excavation

-Hazardous waste

Work Execution Plan Review & Approval

-Attend / chair execution plan review meetings

-Develop routing for list for hazards analysis approval

-Develop routing list for work plan approval

-Coordinate and expedite work package approval routing

-Disposition comments to the work execution plan

-Assemble approved work execution plan

-Provide status & update of work execution plan in work control passport system

Work Execution Field Coverage & Support

-Lead pre-job briefings with craft workers

-Perform task ready walk down with craft supervision

-Verify quantities of installed commodities

-Coordinate daily field support

-Expedite / order material as required

-Coordinate material testing

-Coordinate and status shop fabrication in support of field execution

-Perform field inspections

-Identify and coordinate resolution of field installation issues

Work Execution Plan Closure

-Generate design completion notices

-Ensure accuracy of work execution plan status

-Close all required permits

-Close work execution plan documentation

Minimum Qualifications:

Bachelor's degree in \*\*(specified discipline) engineering and at least 5 years of practical experience in construction \*\*(specified discipline) l field engineering or Associate's degree in (specified discipline) engineering and 5-10 years of practical experience in construction \*\*(specified discipline) engineering or

High school diploma and 10+ years of practical experience in construction \*\*(specified discipline) engineering

Working knowledge of discipline specific codes and standards

Previous experience with generating work execution plans (preferably utilizing the Asset Suite work control system)

Previous experience with generating job hazards analysis

Previous experience performing material take off and procurement