



JOB TITLE: Plant Engineer

GENERAL DESCRIPTION

The Plant Engineer manages daily engineering operations within the production plant. Assist production managers and other personal with standardization as well as micro and macro production efficiencies and improvements as needed. Research, test and evaluate existing as well as implement new ways to improve efficiency and cost-effective measures while maintaining safe practices and good quality. Work on developing methods to inform and educate the production department, along with associated departments, to work towards lean manufacturing.

ESSENTIAL FUNCTIONS AND RESPONSIBILITIES

- Ticket reviews: Verify lifter locations and capacity; strand size, location and pull; stress envelope; blocking; rotating; dimensioning; wythe connectors; unique items.
- Coordinates structural engineering requirements with other engineering disciplines such as mechanical, electrical, civil.
- Investigates load-carrying capacities of embedded hardware and devices in concrete.
- Analyses and designs special formwork for concrete products when needed and the anchorage to concrete substructure.
- Incorporates engineering requirements into the production practice to ensure conformance to the project drawings and specifications.
- Meets to discuss issues that arise with quality control, production, ready mix, patching, repair, and yarding personnel daily.
- Discusses with building erection personnel to resolve constructability issues.
- Performs research and development for production that can lead to more efficient construction processes and/or have a production cost reducing effect.
- Works toward standardization of details, embedded items, handling hardware and devices for production and erection departments.
- Monitors current processes to see if improvements can be made.
- Researches and develops testing and techniques for existing and new precast panel handling hardware and devices and incorporates the test results into production practice.
- Coordinates quality system manual meetings and updates pertaining to PCI for the plant certification.
- Reviews aggregate materials and specifications for acceptance; Checks concrete mix designs, concrete strength test reports and pre-stressing strand elongation reports for compliance to project specifications.
- NCR 'Engineering Review' resolution: work with engineering, drafting, production and QC to resolve NCR's.
- Attends conventions, seminars and workshops that are related to structural engineering concepts, innovative ideas, and modern concrete production methods.
- Promotes safety to all employees.
- Completes special projects as requested and perform other duties as assigned.
- Production floor visits. Answer questions: communicate pour ticket changes and clarify ambiguity; review steel and embed installations; resolve steel interfaces; work with engineering, drafting, production and QC to solve pour ticket issues.
- Drawing submittal review and concept ticket review. Help improve drawings and tickets before being submitted or published.
- Finish and Yard visits. Answer questions; communicate special circumstances. Example: shipping a spandrel vertical.
- Assist supervisors during production planning with engineering related items.
- Inspections: form hold downs, yard and A-frame trailers, batch plant, CPCI.
- Assist with plant projects. Example: form install; yard layout; plant layout; lean and safety.
- Assist with R&D. Investigate and develop new products and processes.

KNOWLEDGE, SKILLS, AND ABILITIES REQUIRED

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| <ul style="list-style-type: none"> – Overall knowledge in engineering, production, and construction processes of building structures. – Knowledge of concrete structures. – Understanding building codes, standards, and specifications relevant to the design criteria. – Overall understanding in design, production and building erection processes. – Must be able to make well educated decisions on how production in all areas can improve. | <ul style="list-style-type: none"> – Knowledgeable use of computer skills and software – AutoCAD, LECWall, LECPres, LEAP Presto, PC-Help, PROFIS Anchor, Eneccalc, StruWare, MS Office; – Ability to solve problems. – Ability to find areas that can be improved to maintain a lean production facility. – Resolve problems dealing with the production inefficiencies. – Ability to work with other departments to get projects completed efficiently. |
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EDUCATION REQUIREMENTS	WORKING CONDITIONS
<ul style="list-style-type: none">– Bachelor's Degree in Civil/Structural Engineering.	<ul style="list-style-type: none">– Moderate to high risk of exposure to unusual elements– Moderate to high risk of safety precautions– General Office Environment with a moderate to high exposure to production environment.

This position profile identifies the key responsibilities and expectations for performance. It cannot encompass all specific job tasks that an employee may be required to perform. Employees are required to follow any other job-related instructions and perform job related duties as may be reasonably assigned by his/her supervisor.

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