



ARTHUR

ENGINEERING, LLC

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COMPANY MISSION

Arthur Engineering's mission is to provide top notch project management and full-service engineering for American industry. Our attention-to-detail, customer focus, honesty, dependability and efficiency differentiate us from our competition. We specialize in manufacturing, chemical plants, petroleum & tank terminals and other industrial projects.

PROJECT SPECIALITIES

- Brown & green-field new plants
- Process changes and start-ups
- Expansions/retrofits
- Maintenance improvements
- Process studies & Due diligence

SERVICES

- **Project Management**
- **Mechanical & Process Engineering**
 - Equipment, Pump & Tank specifications
 - Pipe stress analysis
 - Pressure relief device sizing & validations
 - HVAC
- **Piping & Mechanical Design**
 - Site plans & Equipment General Arrangements
 - Industrial piping & plumbing
 - Industrial ductwork, ventilation & HVAC
- **Electrical & Instrumentation Eng.**
 - Power, Grounding, Arc Flash, Controls
- **Structural Engineering**
 - Structural design: Foundations & Steel
 - Structural modeling
- **3D Laser Scanning Services**
- **Procurement Assistance**
- **Construction Management**





PROJECT EXECUTION - PHASED APPROACH

- **Front-End Phase – Preliminary or Due-Diligence**
 - Scope of work definition & work breakdown structure
 - Cost & schedule estimation
 - Constructability, feasibility & process studies
 - Support for permitting & insurance underwriter approval
 - Engineering decision analysis & documentation
 - Preliminary process description, Block Flow Diagrams & Process Flow Diagrams
- **Engineering Phase – Detailed Design**
 - Sequenced engineering & decisions based on schedule
 - Process flow diagrams, Piping & Instrumentation Diagrams
 - Model, Hazop & Safety Review
 - Equipment Bid Package development & Owner reviews
 - Construction Bid Package development & Owner reviews
 - Coordination with outside engineering, vendors, government agencies & insurance underwriters as needed
 - Formal bid requests, bid meetings & value engineering
 - Documented bid technical & commercial comparisons
- **Construction Phase – Engineering Support**
 - Timely response to RFI's & Owner design changes
 - Permitting assistance & interface with government agencies
 - Construction Management
 - Engineering site assessments & field reports
 - Construction schedule updates & construction sequencing
- **Commissioning Phase – Engineering Support**
 - Process engineering support for automation & start-up
 - Engineering trouble shooting & process improvement
- **Post Construction Support**
 - Trouble shooting
 - Process improvements & new process additions
 - Hazop, process safety management support
 - PSM & P&ID updates
 - As-built drawing revisions
 - Documentation & drawing retrieval

