REQUEST FOR PROPOSAL (RFP)

Ross-Hancock

PROJECT OVERVIEW

Name: Petro Claireshire Safety Compliance
Type: Safety Compliance
Location: Claireshire, FM (Industrial Park)
Industry: Oil & Gas
Value: $18,108,149
Complexity: 3/5
Date: April 09, 2025
Disciplines: Structural Engineering, Piping & Pipeline
Regulations: OSHA Regulations

SCOPE OF WORK

Scope of Work: Industrial Oil & Gas Project - Process Unit Modification

Project Goal: Modify an existing process unit to increase throughput by 15% while maintaining compliance with all relevant safety and environmental regulations.

Discipline: Structural Engineering

1. Platform Strengthening: Assess the existing platform structure (dimensions approximately 20m x 15m x 5m high) supporting process vessels, using finite element analysis (FEA) to determine load capacity under increased operational loads. Design and detail reinforcements using A36 steel, complying with AISC 360-16, and produce detailed shop drawings and stress analysis reports to increase the platform's load capacity by 25%.
2. New Support Structure Design: Design and detail a new support structure for a newly installed 50-ton heat exchanger (dimensions 4m x 2m x 3m). The design must account for seismic loads per ASCE 7-16 and utilize welded steel construction meeting AWS D1.1 standards, including detailed drawings and bill of materials.

Discipline: Piping & Pipeline

1. Pipeline Rerouting: Design and detail the rerouting of an existing 6-inch diameter carbon steel gas pipeline (approximately 500 meters) to accommodate the new heat exchanger. The reroute must adhere to ASME B31.3 and include detailed isometric drawings, stress analysis, and material specifications for 500 psi operating pressure, ensuring compliance with OSHA 29 CFR 1910.119 for Process Safety Management.
2. New Process Piping Design: Design a new piping system (carbon steel, schedule 40) for the process fluid connecting the heat exchanger to the existing process unit. The design should include detailed isometric drawings and bill of materials, utilizing appropriate pipe supports and accounting for thermal expansion, adhering to ASME B31.1 standards. This section requires 200 meters of new piping.

Cross-Disciplinary Tasks:

1. Interface Coordination: The Structural and Piping teams will collaborate to ensure the new support structure for the heat exchanger properly integrates with the modified piping system, minimizing interference and ensuring structural integrity under all operating conditions. Regular coordination meetings and joint reviews of design documents will be necessary.
2. OSHA Compliance Review: Both teams will ensure all designs comply with relevant OSHA regulations, particularly regarding fall protection, confined space entry, and hazardous energy control. This includes incorporating appropriate safety features into the design and documenting compliance in the design specifications.

Complexity Impact Note: The project's complexity level (3/5) is primarily due to the need for detailed structural analysis and the integration of new piping systems within a functioning process unit.

REQUEST FOR QUOTATION

Request for Quotation: Petro Claireshire Safety Compliance

Project Name: Petro Claireshire Safety Compliance

Location: Claireshire Industrial Park, FM

Industry: Oil & Gas

Project Goal: Modify an existing process unit to increase throughput by 15% while maintaining full safety and environmental compliance. This involves structural reinforcement, new support structures, pipeline rerouting, and new process piping.

Scope of Work: See detailed description below.

Discipline 1: Structural Engineering

1. Platform Strengthening (20m x 15m x 5m): FEA, design & detailing reinforcements (A36 steel, AISC 360-16), shop drawings, stress analysis reports. 25% load capacity increase.

2. New Support Structure Design (50-ton heat exchanger, 4m x 2m x 3m): Design & detailing (welded steel, AWS D1.1), drawings, bill of materials, seismic design (ASCE 7-16).

Discipline 2: Piping & Pipeline

1. Pipeline Rerouting (6? carbon steel, 500m): Design & detailing (ASME B31.3), isometric drawings, stress analysis, material specifications (500 psi), OSHA 29 CFR 1910.119 compliance.

2. New Process Piping Design (carbon steel, schedule 40, 200m): Design & detailing (ASME B31.1), isometric drawings, bill of materials, pipe supports, thermal expansion considerations.
Cross-Disciplinary: Interface coordination, joint design reviews, comprehensive OSHA compliance review (fall protection, confined space, hazardous energy).

Complexity: 3/5

Qualifications: Minimum 3 years' experience in Oil & Gas, proven regulatory compliance record.
Proposal Requirements: Technical design (1-2 pages), detailed cost breakdown.
Evaluation Criteria: Technical (50%), Cost (30%), Experience (20%).

Timeline:

*** RFQ Release: April 09, 2025**

*** Questions Due: April 23, 2025**

*** Proposals Due: May 14, 2025**

*** Project Start: May 24, 2025**

*** Project Duration: 12 months**

Contract Type: Time & Materials
Submit Proposals To: procurement@oil&gas.com

CONTACT

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TIMELINE

Include key dates such as submission deadlines, inquiry deadlines, and project start dates.