

Pipe & Structural Stress Analysis for OC & RAS Systems

Intergraph CAESAR II

Key Features

Technology:

Duration:

The project was completed in 10 days

Deliverables:

- 1. Restraint Report
- 2. Structural Report

The Client

A US based engineering and consulting services provider specializing in pipe support engineering/design and pipe flexibility analysis for major piping installations in Power & Water/Waste Water Treatment industries.

The Business Need

The client required Piping Stress & Structural Stress Analysis (qualification of the system support details to accommodate the Piping loads) for:

- > Odor Control system (OC) with Fiber Glass Piping (FRP) &
- > RAS (Return Activated Sludge) ductile Iron system

Rishabh's Solution

Rishabh Engineering was appointed to deliver the piping stress analysis and structural stress analysis reports for the OC & RAS systems in a span of 10 days by utilizing a pipe stress and a structural stress engineer with the following scope for:

OC System

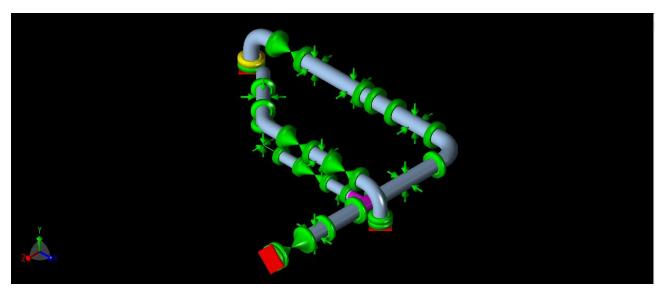
 Basic piping analysis to determine the deadweight and lateral loads on the OC supports

> To qualify the structural frames and baseplates and anchor bolts

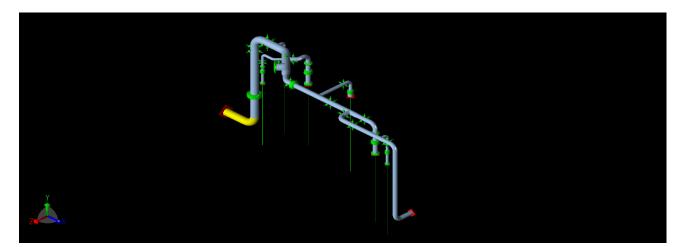
RAS System

 Basic piping analysis to determine the deadweight and lateral loads on the RAS supports

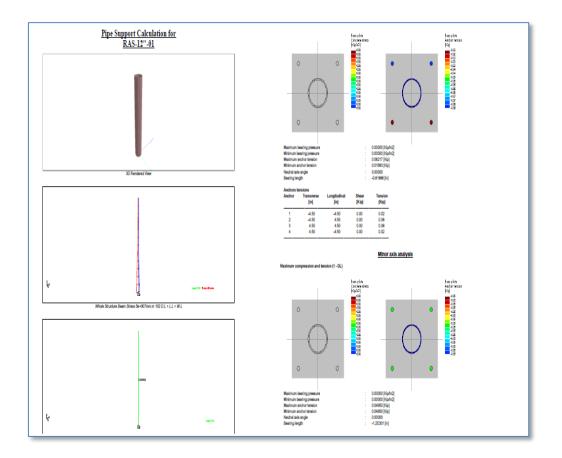
> To qualify the pipe post and baseplate and anchor bolts



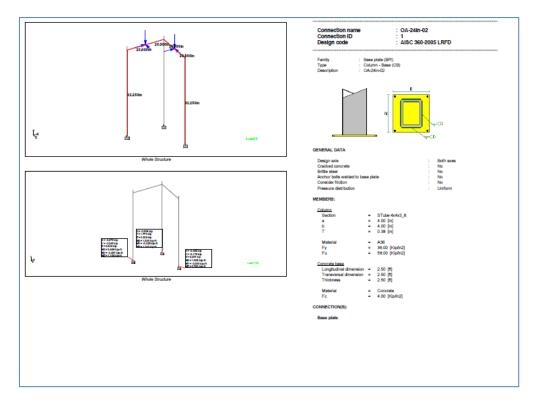
RAS System Piping CAESAR File



OC System Piping CAESAR File



RAS System Structure STAAD File



OC System Structure STAAD File

Technology Used

- > Intergraph CAESAR II
- STAAD-Pro
- MS Office

Key Deliverables

- > Piping Stress summery and Restraint summery report
- > Pipe support Structure analysis Report

Contact Details

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About Rishabh Engineering

Rishabh Engineering provides multidisciplinary engineering support services to EPC companies in industries like Oil and Gas, Petrochemical, Power and Water treatment. Our parent company, Rishabh Software is a CMMI level-3, ISOgoo1 and ISO27001 company that provides services in Software Development, Business Process Outsourcing (BPO) and Engineering Services Outsourcing (ESO) to clients globally. Rishabh has offices in USA, UK and India with their main delivery center in Vadodara, India.

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