

SUCCESS STORIES

TURNKEY RETROFIT OF ENVIRONMENTAL SYSTEMS

NATURAL CIRCULATION, HORIZONTAL FLOW UNITS

LOCATION CALIFORNIA

PROJECT OVERVIEW

HRSO

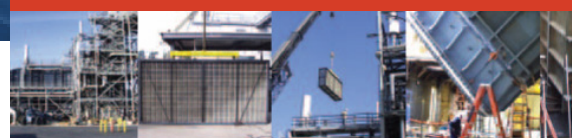
- + No. of Units: 3
- + Type: Natural Circulation, horizontal flow units supplied by Vogt

VOGT POWER SOLUTION

- + Pre-fabricated the CO catalyst frame for trouble-free installation into the existing inlet duct
- + Designed custom NO_x catalyst blocks to incorporate them into the original catalyst frame with minimum modification
- + Upgraded gas-side sealing systems for CO and NO_x (SCR) systems
- + Installed NO_x catalyst blocks by using original loading window
- + Installed CO catalyst blocks

PERFORMANCE RESULTS

- + Reduced CO and NO_x emissions below 6 ppmvd and 2.5 ppmvd respectively by executing the most viable solution based on the existing equipment and operating conditions supplied by the customer
- + Reviewed original operating and design conditions of NO_x (SCR) system in order to ensure that new operating conditions could be handled by existing equipment (i.e. ammonia system)
- + Eliminated the necessity of any major modifications
- + Engineering, material, construction and supervision services
- + Well-thought pre-fabrication and construction strategy to minimize modifications and expedite construction time



AFTERMARKET PRODUCTS

- + HRSO spare parts
- + Access doors
- + Complete modules
- + Bare and finned tubes
- + Headers
- + Steam drums
- + Heat exchangers
- + Valves/instruments
- + Control systems
- + Diverter valves/dampers
- + Burner management systems
- + Environmental controls (CO/NO_x systems)
- + Freeze protection
- + Inspection services
- + Computational Fluid Dynamics (CFD) analysis capabilities
- + Performance testing
- + Casing seals
- + Casing and insulation
- + Expansion joints
- + Pressure vessels
- + Feedwater heaters
- + Rolled cylinders
- + Deaerators
- + Stacks
- + Return On Investment (ROI) analysis
- + Thermal studies
- + Pipe stress