

LNG Trains Overhaul

Major Overhaul Term Contract

Customer: Abu Dhabi Gas Liquefaction Company

Services Provided

- Scheduling of shutdown and restart date
- Demolition
- Civil Works
- Electrical and instrumentation works
- Procurement
- Transportation and installation of equipments
- Piping and tie-ins

Benefits to Customer

- Integrated team approach with customer
- Methodological transparency for customer
- Completion of works ahead of schedule
- Concise risk and HSE management
- Contract specific penalties included for a delay



Background

The scope of this project was a three year term services contract for three major LNG train overhauls on Das Island. The trains house proprietary liquefaction equipment and the largest cryogenic exchanger ever built. Intermittent shutdowns of the trains are necessary to allow maintenance work for optimum processing and adherence to safety standards.

The customer required the planning, management and execution of turnarounds for the three LNG trains to ensure a tie-in date within schedule. Costain overcame the logistical challenges of Das Island to complete the project ahead of schedule and within budget with no Lost Time Incidents.

Project Description

- Surface condenser replacement
- Turbine and compressor overhauls
- Boiler overhauls
- Refurbishment of vessels, columns, reactors, exchangers and associated equipment
- Fabrication of steel structures and pipe work
- Temporary pipeline re-routing
- Nitrogen tank isolation, dismantling and removal
- Detailed rigging studies for oversized equipment lifts and transportation from mainland

Awards

ADGAS HSE award for completion of overhauls with no Lost Time Incidents. Extension of service contract from three years to twelve years.