

Boil Off Gas Sulphur Recovery, Das Island

Gas Capture Maximisation and Sulphur Recovery Unit Upgrade

Customer: Chiyoda Corporation / Abu Dhabi Gas Liquefaction Company – ADNOC Group Company

Services Provided

- Project execution plan
- Quality system
- Risk management
- Change management
- Sub contract management
- Material control

Benefits to Customer

- Multidiscipline construction
- Longstanding technical experience
- Management capability and expertise
- Logistical solutions for offshore heavy loads
- Client interface
- Transparency of methods
- Milestone completion



Background

Upgrading of the SRU was necessary to meet environmental regulation of SO₂ emission and increase the capacity of the existing BOG system to minimise flared gases. This required the incorporation of three new sulphur recovery units and a boil-off gas plant. The installations altered the sulphur content removal from 96% to 99% reducing flaring in accordance with the guidelines.

Costain had the competitive advantage to complete this project due to the technical expertise of staff. The project required large and complex installations to be incorporated within the active plant.



Project Description

The boil off gas and sulphur recovery unit works included:

- Install a fourth LPG train and its associated facilities adjacent to existing gas liquefaction trains 1, 2 and 3 at Das Island
- Upgrade the existing trains 1, 2 and 3 sulphur recovery plants for increasing the sulphur recovery from the present around 95% to a recovery not less than 99%.

Awards

Two million man-hours completed with no Lost Time Incidents