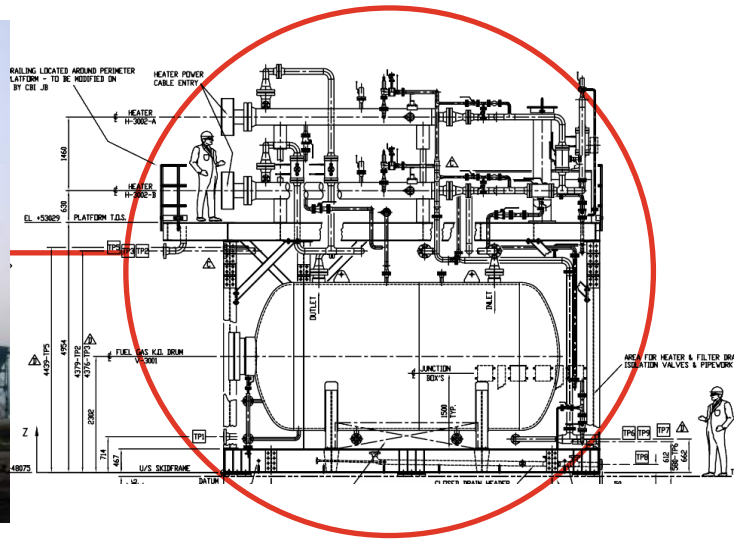


C142 | Nexen | Buzzard Project

Fuel Gas Conditioning Skid



Project:	Buzzard	Contractor:	CB&I John Brown	End User:	EnCana
Product:	Fuel Gas Conditioning Skid	Location:	UK, Offshore	Year:	2003

Application

The Fuel Gas Conditioning project was one of two placed by CB&I John Brown for the EnCana Buzzard asset in the UK North Sea.

Description

The scope of supply for this project included the following:

- 900# Stainless Steel Fuel Gas Conditioning Package
- 1 off KO Drum complete with inlet gas distributor, demister and liquid outlet vortex breaker
- 2 off 100% Electric Heaters
- 2 off 100% Thyristor Control Panels, complete with means of isolation of the incoming supply
- 2 off 100% Fuel Gas Filter complete with quick open closure, Control valves, Shut Down Valves, Pressure Control Valves and ancillary equipment
- Double Deck Skid package, 7.5m (l) x 6.0m (w) x 8.1m (h), split into 2 sections

Challenges

Some of the challenges OGS faced and overcame during the execution of this project included:

- One of the main risks with this package was that the client ownership of the Buzzard project changed hands from EnCana to Nexen during the lifetime of the project. We needed to ensure that historical information and documentation was handed over effectively.
- The package was large and heavy. A combination of transport restrictions and a limited foot print available to OGS resulted in a package design that was split in two and double decked.

- The package was fully assembled and tested in the OGS workshop and then disassembled into 4 sections before re-assembly at the dockside and being lifted on to a ship.
- The Low Temperature Carbon Steel Horizontal Knock Out Drum, had a wall thickness of 40mm and weighed 24 tonnes. It was designed to allow for a 30 second gas hold up, ensuring the client had time to switch fuel source if there was a problem with the inlet gas supply to our package.
- The KO Drum also featured Nucleonic Level Gauges. These special design level gauges are non-invasive, not in contact with the service and have no moving parts ensuring high reliability.
- The final package was painted to high specification NORSOK requirements.

