

## CASE STUDY



## BP ETAP – Topside Umbilical Termination Unit (TUTU) Replacement

### CUSTOMER

BP North Sea

### CUSTOMER REQUIREMENT

Manufacture and supply of nine Topside Termination Units (TUTU's).

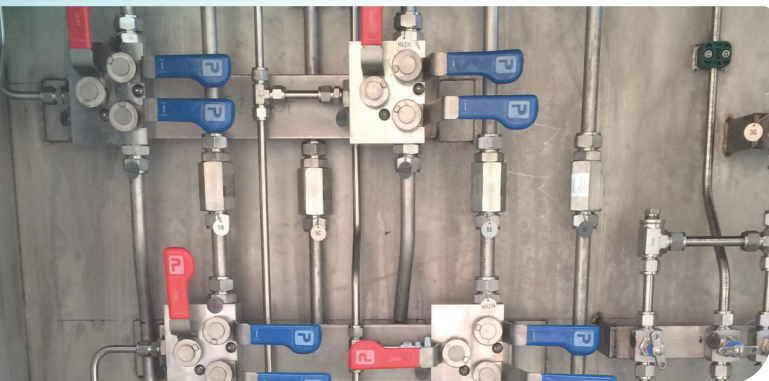
### HYDRASUN SOLUTION

Verify drawings, manufacture and supply of nine TUTU's and provision of associated hydraulic hook-up.

### BENEFITS

- Engineering Design
- Short Delivery Lead Time
- Flexibility of Manufacturing
- Project Management





## BACKGROUND

Eastern Trough Area Project (ETAP) is an integrated development of nine oil and gas reservoirs, with six fields operated by BP and three operated by Shell.

ETAP is currently the largest producer for BP in the UKCS/ NCS. It initially had an expected field life of 20 years but due to continued reservoir delivery this has led to potentially extending the economic life of the asset to 2030.

The ETAP central processing facility (CPF) comprises a production drilling riser platform, bridge-linked to a quarters and utilities platform. A normally unmanned installation stands about 20km to the west.

## CUSTOMER REQUIREMENT

As part of BP's Life Extension Project - a major renewal programme designed to address falling production efficiency, ageing assets and new discoveries of existing resources in UKCS - they required like-for-like replacement of nine Topside Umbilical Termination Units (TUTU's) for ETAP.

## HYDRASUN SOLUTION

Hydrasun carried out offshore surveys on all units to prepare for disconnect/connect, carry out key measurements to confirm that drawings held for the units were "as built" and to ensure units with respect to size, interface positions/orientations match drawings.

Previous units suffered from corrosion/fatigue issues, therefore Hydrasun suggested the manufacture seven of the TUTU's using 6Mo tube/fittings instead of 316SS and Super Duplex instead of 316SS for two high pressure units.

## THE RESULT

Hydrasun manufactured and delivered the units on schedule. The material specification ensured that the units were more resistant to corrosion/fatigue and would therefore prolong their field life.

The units were to be installed by BP's nominated contractor with Hydrasun responsible for reconnecting all hydraulic interfaces. Hydrasun would also be on site during commissioning should remedial work be required.

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