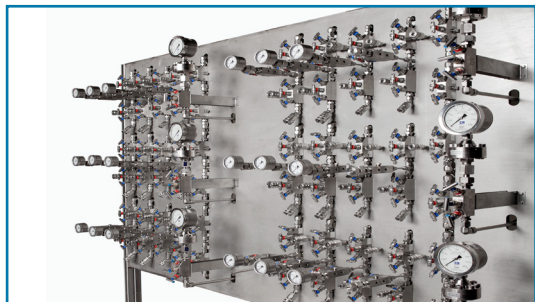


# CASE STUDY

## Panel Manufacture for Offshore Group Newcastle (OGN) Ltd



### Background

Offshore Group Newcastle (OGN) North Sea Limited provides Engineering, Procurement, Construction and Installation (EPCI) services to the oil and gas industry worldwide. In late 2010 OGN was awarded a contract from Apache North Sea for the provision of a new oil production platform - the Forties Alpha Satellite platform (FASP) - for its Forties development the Central North Sea.

### Customer Requirement

OGN identified, late in the project construction phase, a requirement for three Well Intervention control panels to be designed and manufactured to enable personnel to monitor annulus pressure during well intervention operations.

In addition to a requirement for these to be manufactured and delivered within a short timescale, there was a limited footprint within which the panels could be installed on the platform deck.

### Hydrasun Solution

Hydrasun has a well established relationship with OGN supplying Hose Assemblies and other hydraulic products over a number of years.

In line with a desire to develop our scope of supply and having identified the above requirement Hydrasun delivered a proposal covering the design, specification, manufacture and testing of complete control panels in line with the two critical project objectives of time and space.

Working closely with OGN's technical team, Hydrasun's engineers looked at challenging traditional designs & technical specifications with a view to introducing new innovative products whilst reducing interfaces thus having a direct impact on size & space requirements as well as improving the technical integrity and reliability of the finished panel.

Each panel comprised a specific configuration of valves, pressure gauges, pressure transmitters, fittings and tubing with top mounted bulkhead connections to allow connection to the platform structure.

Hydrasun utilised the newest in Parker DBB valve arrangements, with inverted connections to eliminate NPT threads, which were assembled in sequence in a modular fashion to dramatically reduce the required space and overall panel size. The panels were designed with removable doors to ensure that key instruments could be fully concealed offering important environmental protection.

Hydrasun designed and manufactured three identical well intervention panels and thereafter performed the relevant Factory Acceptance Tests (FAT), in line with the specific project requirements.

### The Result

Hydrasun's dedicated and experienced Instrumentation Solutions team, with extensive project management capability, delivered a bespoke Well Intervention control panel solution that encompassed technical review, design, manufacture and testing.

Hydrasun delivered added value to OGN, meeting space constraints through close communications and proactive technical offerings, whilst the availability of product from our extensive inventory facilitated the completion of a manufacturing programme ahead of schedule ensuring that this critical project objective was also met.

### At a glance...

#### Customer

OGN North Sea Limited

#### Location

Apache Forties field development in Central North Sea.

#### Customer Requirement

Supply of three well intervention control panels to fit the limited space envelope on asset within a short timeframe.

#### Hydrasun Solution

Fast track design, manufacture, testing and supply of three well intervention panels, utilising efficient & progressive product configurations & technologies to meet space constraints.

#### Benefits

- Fast track on-time delivery
- Space and Weight savings
- Bespoke single source design, manufacture and testing solution
- Reduced Leak Paths
- Enhanced technical integrity & reliability

*"OGN were delighted with the resulting panels as well as the professional way in which Hydrasun progressed this project from our initial proposals through to recommendations, assembly and FAT"*

**Mike Perkins,**  
OGN Senior Instrument Engineer



Hydrasun  
Gateway Business Park  
Moss Road  
Aberdeen  
AB12 3GQ

Tel: +44 (0)1224 618618  
e-mail: [fppc@hydrasun.com](mailto:fppc@hydrasun.com)  
[www.hydrasun.com](http://www.hydrasun.com)

