

CASE STUDY: PRE COMMISSIONING SERVICES

INTEGRATED RIG UPGRADE SUPPORT

Delivering multi-discipline engineering services to support a critical North Sea rig upgrade.



CLIENT
Valaris

YEAR
2020

BUSINESS LINE
Energy Solutions

The Challenge

Following its relocation from Trinidad to the UK, the Valaris Gorilla VI jack-up rig required a comprehensive upgrade to prepare for operations in the harsher North Sea environment.

EnerMech was tasked with delivering a wide range of specialist services within a tight timeframe, all while navigating COVID-19 restrictions and evolving project scopes.

The challenge was to coordinate multiple workstreams efficiently and maintain high safety and performance standards throughout.

The Solution

EnerMech deployed a multi-skilled, agile team to deliver an integrated package of services, including hose integrity management, hydraulic flushing, SBT inspection, PRV testing, and equipment rental.

Hoses were manufactured, tested, and installed in-house, ensuring full quality control and rapid turnaround.

Our Aberdeen-based workshops worked in sync with the on-site team in Dundee Port, enabling fast responses to changing requirements.

Despite pandemic-related constraints, the team maintained 24/7 support and delivered all scopes on time and without incident.

The Outcome

EnerMech successfully completed the upgrade works ahead of the rig's redeployment, delivering 3,933 man-hours without a single safety incident.

Over 1,000 flexible hoses were manufactured and installed within six weeks, and 94 pressure safety valves and 54 pressure gauges were inspected, tested, and recertified.

The client praised EnerMech's flexibility, responsiveness, and ability to deliver a high-quality, integrated solution under challenging conditions.

We Delivered...

- **1056 flexible hoses** manufactured, tested, tagged, and installed in six weeks
- **94 pressure safety valves** inspected, tested, and recertified up to 3,500 psig
- **54 pressure gauges** inspected, tested, and recalibrated up to 15,000 psig
- **24/7 access to EnerMech Live** and full-time project management support
- **3,933 man-hours** completed with zero safety incidents

Multi-Discipline Delivery

Integrated hydraulic, inspection, and testing services delivered by a single, agile team.

In-House Manufacturing

Over 1,000 custom hoses manufactured, tested, and installed within six weeks.