

Design and delivery of diver workstation control cabin and HPU

ASSET	Dive support vessel
LOCATION	UK
DATE	2014

Bespoke hydraulic equipment that meets your exacting requirements is essential to optimise operational performance and ensure safety

BENEFITS

Delivery of bespoke equipment that met all requirements

Experts to support quick and efficient installation and commissioning

Confidence that critical spare parts are immediately available when required



DELIVERY ASSURED

CHALLENGE

As part of the installation of a diver workstation on their vessel our client contracted us to design, manufacture and deliver a control cabin to allow operation of two a-frame and umbilical winches, and a 45/54 kW safe area Hydraulic Power Unit (HPU) to supply power to the workstation.

SOLUTION

- Specific client requirements analysed and bespoke design applied to ensure the equipment was fit-for-purpose.
- Fire retardant Glass Reinforced Polymer (GRP) control cabin designed with carbon steel frame, forklift pockets and pad eyes complete with sling-set for lifting and fitted out with remote hydraulic and pneumatic directional control valves, 110 V power supply and heater.
- With limited space available, the internal layout was designed to ensure sufficient space for the HPU components and to allow access for future maintenance activities.
- Suitable for use in a safe area the self-contained HPU was designed with a stainless steel hydraulic reservoir of 625 L nominal capacity and a 45/54 kW electric motor driven pump-set.
- We carried out full assembly, installation, commissioning and testing onshore which was witnessed by the client before delivery.
- A complete five year critical spares parts packages was supplied to ensure the immediate availability in the event of a failure.
- The HPU frame was designed in accordance with: DNV Standard for Certification No. 2.7-1 Offshore Containers April 2006; British Standard for Offshore Containers and associated Lifting Sets BS EN 12079-1:2006 (Part 1: Offshore Containers – Design, Manufacture and Marking); and the British Standard for Offshore Containers and associated Lifting Sets BS EN 2079-2:2006 (Part 2: Lifting Sets – Design, Manufacture and Marking).

SUMMARY

- Design and engineering
- Management of fabrication
- Installation
- Testing
- Commissioning
- Project management



1. Fully assembled HPU set-up for Factory Acceptance Testing (FAT)
2. Control cabin
3. Conversion of umbilical winches from pneumatic to hydraulic drive
4. Commissioning and load testing on vessel

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