



CFI

CONTROLLED FLUIDS, INC.

CHOKER CONTROL IN OFFSHORE MANAGED PRESSURE DRILLING



System Details:

A major O&G drilling company approached CFI needing an HPU and controls for choke control in their offshore managed pressure drilling (MPD) operations. The customer's specific needs included an HPU, remote control panel, instrumentation, and power & communication cables. After reviewing the details of the application with the customer, CFI designed, manufactured, and delivered a MPD choke control HPU custom built to the application's requirements.

Certifications:

As this HPU was designed for use in offshore managed pressure drilling applications, it required a number of special certifications in order to be approved for offshore use. Chief among these requirements were the DNVGL OS-E101 and ATEX certifications indicating that proper components and electrical systems were used in the manufacture of the HPU and controls. CFI tested and verified these systems throughout the design and manufacture process to ensure that the product met certification requirements. Upon completion an onsite factory acceptance test was conducted with the customer and certifying body present.

- ATEX Zone 2 Gas Group IIB + H2, Temperature T3, (-25°C to +40°C) -Ex d II B + H2 T3 (-25°C to +40°C)
- DNVGL-OS-E101:2015
- DNV 2.7-1 Standard for Lift
- Pressure Equipment Directive
- CE Marked



Full Systems Documentation:

Upon delivery of the HPU and control package, CFI also delivered full systems documentation to the customer to ensure safe and efficient operation of the system. In addition, CFI hosts all customer documentation in a password protected online portal in order to ensure that customers can access their documents wherever and whenever they are needed.

These documents include:

- Operations Manual
- BOM
- Maintenance Manual
- Manufacturing Record Book
- Design Verification Report
- DNV Survey Report

