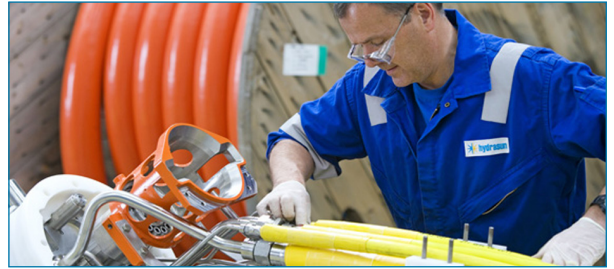


CASE STUDY

Bluewater CALM Buoy to PLEM Umbilical



Background

Bluewater Energy Services B.V specialise in the lease and operation of tanker-based Production and Storage (FPSO/FSO) systems and advanced Single Point Mooring (SPM) systems.

Hydrasun has a Frame Agreement with Bluewater Energy Services B.V for the provision of umbilicals and associated services for their global FPSO operations. The Frame Agreement enables Bluewater Energy Services B.V to streamline their selection and procurement processes for umbilical products and associated services.

Customer Requirement

Bluewater Energy Services B.V required the supply of an Umbilical complete with topside and subsea termination units for a project in Lake Maracaibo, Venezuela. The umbilical would be connected between a moored FPSO CALM Buoy and PLEM manifold controlling the efficient and effective operations of these two critical items of equipment.

The project schedule demanded the fast track turnaround of a bespoke solution, that would naturally meet their detailed design specifications.

Hydrasun Umbilical & Subsea Connector Solution

Hydrasun supplied a CALM Buoy to subsea pipeline end manifold (PLEM) umbilical complete with a topside hang off and pull-in head and subsea termination unit.

In line with the Bluewater functional design specification (FDS), Hydrasun's fully designed and manufactured solution featured a 4 way hydraulic umbilical incorporating an aramid braided strength member and fully integrated mechanical end termination units ready for deployment directly onto the CALM Buoy and PLEM hardware.

Hydrasun designed and manufactured the complete product solution and performed the relevant factory acceptance tests (FAT) at our facilities ensuring the necessary third party design approval and certification was secured to satisfy our customer's requirements.

The Result

Bluewater Energy Services B.V received a fully integrated turnkey Umbilical solution, delivered within the specified project timescale and on budget.

The successful completion of this project illustrates Hydrasun's ability to provide customers with the fast track turnaround of a complete bespoke solution accompanied by the necessary support services and project management capability that adds real value to the overall project.

At a glance...

Customer

Bluewater Energy Services B.V.

Location

Lake Maracaibo, Venezuela

Customer Requirement

Bluewater needed to procure a subsea umbilical complete with associated topside and subsea end termination units to run between a moored FPSO CALM buoy and subsea pipeline end manifold (PLEM).

Hydrasun Solution

Hydrasun designed, manufactured and supplied a 4 way hydraulic umbilical constructed with aramid braided strength member and fully integrated mechanical termination units. Relevant factory acceptance testing was performed, third party design approval and appropriate certification provided in accordance with the customers specification.

Benefits

- Streamlined procurement process
- Bespoke fully integrated turnkey solution in line with customer functional design specification
- Overall Project management
- Fast Track delivery



Hydrasun
Gateway Business Park
Moss Road
Aberdeen
AB12 3GQ

Tel: +44 (0)1224 618618
e-mail: umbilicals@hydrasun.com
www.hydrasun.com

