

CASE STUDY

Burullus West Delta Deep Marine Project - Saipem



Background

The Burullus Gas Company is a joint venture between the Egyptian General Petroleum Company, BG Egypt and Petronas.

The West Delta Deep Marine (WDDM) concession is Egypt's first deepwater gas development, consisting of 14 fields and is considered to be one of the longest running subsea projects in the world.

Further to the successful completion of earlier subsea development phases, Saipem were awarded a contract in 2010 for Phase 8 of the project covering the engineering, procurement, installation, pre-commissioning and commissioning of subsea production and water injection pipelines and flowlines and other related subsea structures.

Customer Requirement

Saipem identified a need for a 2" Downline and Ancillaries to undertake pre-commissioning activities on subsea structures on the development. (i.e. Flooding, Cleaning, Gauging or Calliper Piggings, Pressure Testing, Dewatering via MEG Swabbing & Nitrogen Packing)

The Downline was to be supplied in various sections totalling 2065m, to enable efficient deployment from the Hydraulic Hose reel on the pre-commissioning vessel to the appropriate subsea structure.

Hydrasun Solution

Hydrasun's Specialist Hose team worked closely with Saipem engineers in identifying and specifying a 2" 5000psi High Pressure Hose that could meet the specific technical, functional and operational requirements of the workscope.

Beyond the Hose itself, unique end connections were designed by Hydrasun to facilitate easier handling, reeling and deployment of the completed hose strings due to their low profile design.

In October 2011, Hydrasun was awarded a contract from Saipem for the supply of 11 x 2-inch 5000psi rated Parker PHalcon hose assemblies (total quantity 2065m) with a value of over £1m.

Hydrasun manufactured and supplied Saipem with the Hose Assemblies in the appropriate lengths complete with the unique Duoseal end connections within eight working weeks.

The Hose sections were assembled at Hydrasun's facility in Aberdeen, whilst the unique Duoseal end connections were also manufactured within Hydrasun's specialist manufacturing facility.

Hydrasun is the only certified assembler of Parker PHalcon hoses in the UK, which assures that assemblies supplied are of the highest integrity, assembled by competent personnel and tested to the appropriate standards.

At a glance...

Customer

Saipem Italy

Location

West Delta Deep Concession, Offshore Egypt, Eastern Mediterranean

Customer Requirement

Fast track supply of 2" Downline & Ancillaries to undertake pre-commissioning activities on subsea structures.

Hydrasun Solution

Provision of various Parker PHalcon HP Hose Assemblies with unique Duoseal couplings to support operational requirements.

Benefits

- Operational deployment efficiencies
- Reduced Health & Safety risks
- Product specification reduces Environmental risks
- Reduced leak paths due to lengths supplied
- Delivery Lead Time
- Single Source Integrated Solution
- Project Management

Hydrasun also holds stocks of PHalcon hoses & end connections for immediate manufacture and supply to meet customer needs.

Result

Hydrasun's extensive industry experience, product expertise and application knowledge enabled them to advise, specify and project manage the manufacture and supply of Specialist Hose Assemblies to meet the project timescale and budget constraints.



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