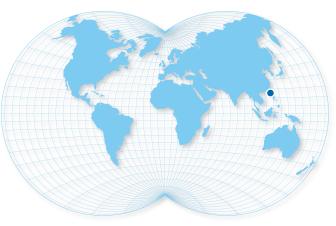


## BZ25-1/S FIELD, CHINA:

# FPSO HYSY113 Tower Yoke





#### Scope of Work

SOFEC designed and procured a tower yoke mooring system for the HYSY113 FPSO.

The FPSO, named HYSY113, is deployed in the BZ25–1/S field approximately 150 kilometers southeast of the Port of Tanggu in Bohai Bay and is a replacement for a previously operating mooring system.

The tower yoke mooring system is an interface between the BZ25–1/S wells and the FPSO and will provide for the transfer of well fluids, water injection and provide Medium Voltage power to the well head platforms.

## **General Description**

Client Name: CNOOC Energy Technology &

Services Ltd.

Contract Award: July 2011
Installation Date: January 2013
First Oil: February 2013
Vessel Size: 110,000 dwt

Storage Capacity: 800,000 bbls Water Depth: 18m (59ft)

#### Design Environmental Criteria (100-year storm)

 Sig. Wave Height:
 5.4m (15ft)

 Wind Velocity:
 28.3m/s (55 kts)

 Current:
 1.85m/s (3.6 kts)

#### **Mooring System**

**Tower Yoke Mooring System** 

### Fluid Swivel Assembly

Production 2 x 16 in. Toroid Production/

Water Injection 1 x 16 in. Toroid
Water Injection 1 x 16 in. Toroid
Gas Import 1 x 10 in. Toroid



## (Continued) Sliprings

Medium Voltage 3 x 3 phase 10.5 kV 3 x 3 phase 10.5 kV Utility /Control 80 paths 200 paths

#### Riser System

7 Risers – Production and Water Injection 3 Umbilicals for medium voltage electrical and controls

#### **Comments**

This is the second tower yoke mooring system which SOFEC is operating in Bohai Bay, China. This SOFEC tower yoke mooring system is be DNV classed.