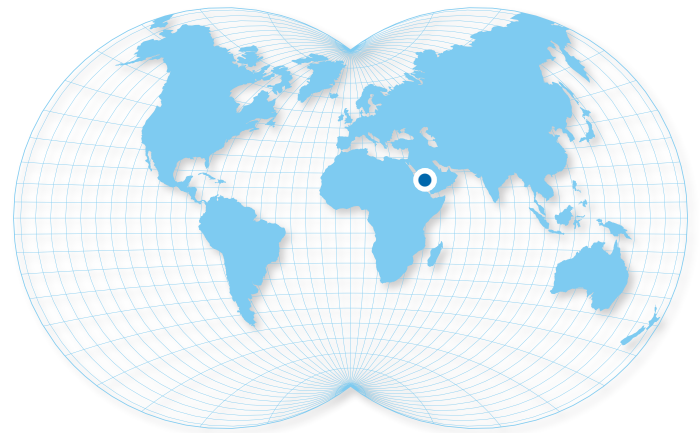


JAZAN, SAUDI ARABIA: Jazan CALM Buoys



Scope of Work

SOFEC designed, constructed and supplied two Catenary Anchor Leg Mooring (CALM) Buoy systems for Saudi Arabian Oil Company to be installed in Jazan, Saudi Arabia.

One CALM Buoy system installed includes the complete buoy assembly, PLEM, anchoring system, hoses and telemetry/electrical package. The other fully outfitted CALM Buoy assembly will be stored on shore as a spare.

The system is designed and fabricated in accordance with ABS Rules for Building and Classing Single Point Moorings to receive ABS +A1 Classification.

General Description

Client Name:	Saudi Arabian Oil Company
Contract Award:	May 2014
Installation Date:	Planned for Q4 2017
Application:	Import Crude Oil

Project Specifications

Water Depth (MSL):	27.4m (90ft)
Tanker Size:	320,000 DWT
Buoy Dimension	12.5mØ x 5.3m
Floating Hose:	2 x 24-in. reducing to 20-in.
Underbuoy Hose:	2 x 24-in. Chinese Lantern
Hawser System:	Dual 16-in. x 55m long
Anchor Leg System:	3.5-in. studless chain
Anchor System:	Driven piles

Design Environmental Criteria

Operational	
Significant Wave Height:	1.66m (5ft)
Wind Velocity:	26m/s (50.5 knots) squall
Surface Current:	0.2m/s (0.38 knots)
Survival	
Significant Wave Height:	2.86m (9ft)
Wind Velocity:	62m/s (120.5 knots) squall
Surface Current:	0.37m/s (0.72 knots)