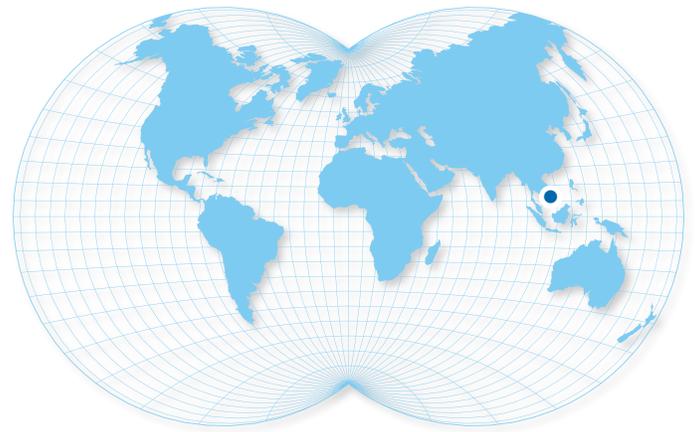


NGIH SON, VIETNAM:

Ngih Son CALM Buoy



Scope of Work

SOFEC designed, constructed and supplied a Catenary Anchor Leg Mooring (CALM) Buoy system for the Nghi Son Refinery and Petrochemical project located about 200 kilometers (120 mi) south of Hanoi in Tinh Gia District of Thanh Hôa Province

General Description

Client Name: JGC Corporation
 Contract Award: March 2014
 Installation Date: August 2015
 Application: Import Crude Oil

Design Environmental Criteria

Operating -
 Significant Wave Height: 3m (9.8ft)
 Wind Velocity: 12m/s (23.3 knots)
 Surface Current: 1.2m/s (2.3 knots)

Survival -
 Significant Wave Height: 9.2m (30ft)
 Wind Velocity: 42m/s (81.6 knots)
 Surface Current: 1.3m/s (2.5 knots)

Project Specifications

Water Depth (MSL): 27m (89ft)
 Tanker Size: 320,000 DWT
 Buoy Dimension: 11mØ x 5.8m
 Floating Hose: Dual 24-in. Single Carcass, except 1st off hose which is Double Carcass
 Underbuoy Hose: Dual 24-in. Double Carcass
 Hawser System: Suitable for dual Single Leg (non-grommet) 65m long, braided Nylon Hawser
 Anchor Leg System: 3 x 2 configuration, 102mmØ, studless, Gr R4, 480m long