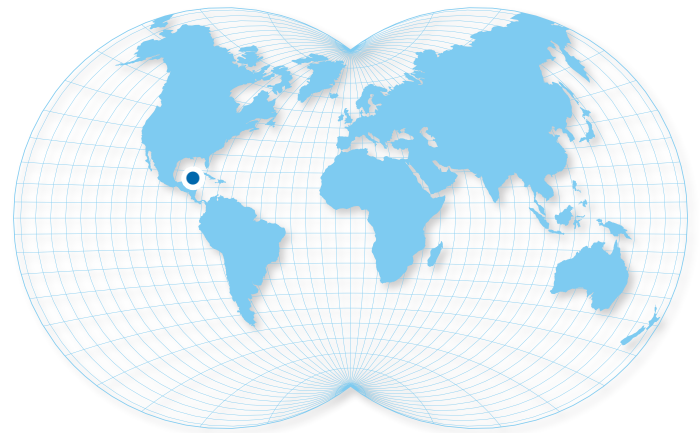


TUXPAN, MEXICO: CFE #2 CALM



Scope of Work

SOFEC designed and fabricated a second CALM system for import of refined products for power generators in Mexico. The fluid transfer system is designed to allow circulation of hot diesel after every unloading. The first SOFEC system was installed in 1989 off Tuxpan, Mexico.

General Description

Client Name:	Comision Federal de Electricidad (CFE)
Contract Award:	January 1994
Installation Date:	September 1994
Application:	Heavy Fuel Oil Import

Project Specifications

Water Depth:	16m (51ft)
Tanker Size:	45,000 dwt
Dimension:	9.5mØ x 3m
Floating Hose:	2 x 16-in.
Underbuoy Hose:	2 x 16-in. Chinese Lantern

Hawser System:	13-in. Single hawser
Anchor Leg System:	4 x 3-in. Grade U3
Anchor System:	10mt Stevpris anchors

Design Environmental Criteria

Operational	
Significant Wave Height:	1.8m (5.9ft)
Wind Velocity:	12.5m/s (24.3 knots)
Surface Current:	0.5m/s (0.97 knots)
Survival	
Significant Wave Height:	3.3m (10.8ft)
Wind Velocity:	25m/s (48.6 knots)
Surface Current:	0.8m/s (1.5 knots)

Comments

The CALM design features a turntable with tubulars as major structural members, a fully sealed and lubricated single bearing, dual product fluid swivel and trunnion mounted chain stoppers. This import buoy for Power Station No. 2 is identical to the one delivered in 1988 for Power Station No. 1.