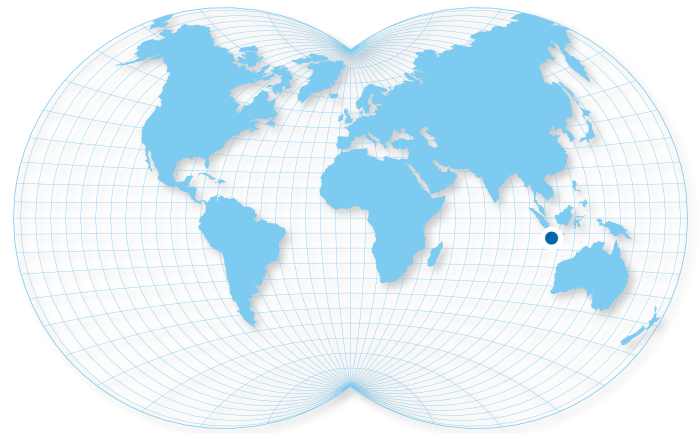


TTU TUBAN TERMINAL, INDONESIA: Pertamina 150 CALM



Scope of Work

SOFEC will design, supply and install two Catenary Anchor Leg Mooring (CALM) systems for Inti Karya Persada Teknik (IKPT) near the Tuban field, offshore Indonesia. The owner is Pertamina, Indonesia's National Oil Company.

General Description

Client Name:	Inti Karya Persada Teknik (IKPT)
Owner:	Pertamina
Contract Award:	September 2007
Installation Date:	September 2008
Application:	Crude Oil Import

Project Specifications

Water Depth:	24.6m/ (81ft)
Tanker Size:	150,000 dwt
Dimension:	11mØ x 4.5m
Floating Hose:	2 x 24-in.Ø
Underbuoy Hose:	2 x 20-in.Ø

Mooring Hawsers:	18" Leg Single Non-grommet
Anchor Leg System:	6 x 3-in. Grade R3S Studless link
Anchor System:	Piles

Design Environmental Criteria

Operational	
Significant Wave Height:	3.1m (10ft)
Wind Velocity:	12.2m/s (23.7 knots)
Surface Current:	0.75m/s (1.4 knots)
Survival	
Significant Wave Height:	4.6m (15ft)
Wind Velocity:	21.2m/s (41.2 knots)
Surface Current:	0.95m/s (1.8 knots)