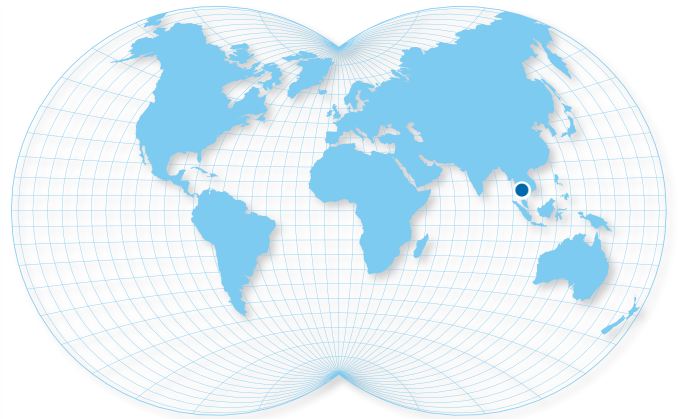


ERAWAN FIELD, GULF OF THAILAND:

FSO Erawan External Turret



Scope of Work

Under contract to IHI Corporation, SOFEC was responsible for the design and construction of an external turret system and flexible riser system. SOFEC's responsibilities included the design of the subsea pile-based pipeline end manifold (PLEM) and turret support structure (TSS).

The work included the delivery of a new-build FSO (based on a duplicate copy of the recently supplied Vietsovpetro 01 FSO hull and TSS structure) for replacement of the existing Erawan FSO located in the Gulf of Thailand.

The SOFEC turret system is ABS classed.

General Description

Client Name:	Chevron Thailand Exploration and Production, Ltd,
Contract Award:	January 2011
Installation Date:	June 2012
First Oil:	July 2012
Vessel Size:	150,000 dwt
Storage Capacity:	1,000,000 bbls
Water Depth:	60m (196.8ft)

Fabrication: Turret -	China
Vessel -	Japan

Design Environmental Criteria (100-year storm)

Sig. Wave Height:	7.4m (24ft)
Wind Velocity:	27.3m/s (53.5 kts) [1-hr mean]
Current:	1.1m/s (2.12 kts)

Mooring System

9-leg (3x3) all chain mooring

Riser System

- 1 x 10-in. Erawan condensate
- 1 x 6-in. Gas II condensate / crude oil import
- 1 x 6-in. Water export

Fluid Swivel Assembly

- Condensate: 1 x 10-in. 699# in-line swivel
- Water Export: 1 x 6-in. 600# toroidal swivel
- Bypass Condensate / Crude Oil Import: 1 x 6-in. 600# toroidal swivel
- Low Voltage Slip Ring