

BENCHAMAS FIELD - GULF OF THAILAND:

FSO Benchamas 2 External Turret



Scope of Work

SOFEC designed, constructed, fabricated and installed an External Turret and Turret Support Structure for the Benchamas 2 FSO. The Benchamas Field is located offshore in the Bay of Thailand in approximately 71m water depth.

The SOFEC external turret mooring system is American Bureau Shipping (ABS) classed.

General Description

Client Name:	MISC Offshore Floating Terminals Limited
Contract Award:	August 2016
Installation Date:	April 2018
First Oil:	May 2018
Vessel Size:	105,000 mt
Storage Capacity:	650,000 bbls
Water Depth:	71m [233ft]
Fabrication:	Turret - MMHE Topsides - MMHE Vessel - MMHE

Design Environmental Criteria [100-year storm]

Sig. Wave Height:	7.4m [24ft]
Wind Velocity:	27.5m/s [33 kts]
Current:	1.09m/s [2.1 kts]

Mooring System

- Existing 9-leg [3x4] all chain mooring
- Replacement Top chain 100mm R3
- Existing driven piles

Fluid Swivel Assembly

- One [1] Low Voltage Electrical Slip Ring [LVESR]
- Two [2] Condensate/Produced Water Swivel [8-in. Class 300]
- One [1] Fuel Gas Toroidal Swivel [8-in. Class 300]

Riser System

- 2 x 8-in. Flexible Riser [Condensate/Produced Water Import]
- 1 x 6-in. Flexible Riser [Fuel Gas Service]