

SALEEF FIELD, YEMEN:

FSO Safer External Turret



Scope of Work

SOFEC developed, designed and constructed an external turret-type SPM system for a 409,000 dwt tanker that serves as an FSO terminal for crude oil. Installed in March 1988, it is the largest FSO system in the world and is still currently operating.

This SOFEC external turret mooring system is ABS classed.

General Description

Client Name: Contract Award: Installation Date: Vessel Size: Storage Capacity: Water Depth: Fabrication: Yemen Hunt Oil Company August 1986 March 1988 409,000 dwt 3,100,000 bbls 38m (122ft) Turret – Japan Vessel Conversion – Japan

Design Environmental Criteria (100-year storm)

Significant Wave Height: Wind Velocity: Current: 6.3m (21ft) 30.4m/s (59 knots) 0.7m/s (1.4 knots)Mooring System

Mooring System

6-leg Symmetric catenary: 6-in. ORQ chain 48-in.Ø piles

Turret

External Cantilevered Bow

Fluid Swivel Assembly

Crude Oil:

Hydraulic Control Swivel:

2 x 12-in. non-piggable paths (225 psi operating/350 psi test) 6 x 0.5-in. paths (3,000 psi operating/4,500 psi test)

Riser System

2 x 12-in. OCIMF submarine hoses 1 x Hydraulic umbilical