

CANTERELL FIELD, GULF OF MEXICO, MEXICO:

FSO Ta’Kuntah External Turret



Scope of Work

The FSO Ta’Kuntah is a MODEC converted 357,000 dwt ULCC tanker with a SOFEC external turret mooring system, flexible risers connecting to the single point mooring cargo piping to the PLEM on the seabed, and an offloading system which allows the FSO Ta’Kuntah to offload tandem, side-by-side, and even simultaneously.

Since operations began in 1998, the FSO Ta’Kuntah has offloaded more than 800 million barrels of oil in the first eight years of operations without any instance of oil pollution and ‘zero’ downtime.

FSO Ta’Kuntah is located in a hurricane prone area. In two instances, partial crew evacuation was carried out due to hurricane threat but fortunately full evacuation was not necessary.

This SOFEC external turret mooring system is ABS classed.

General Description

Client Name: PEMEX Exploration & Production
 Contract Award: June 1997

Installation Date:	June 1998
First Oil:	August 1998
Vessel Size:	357,000 dwt
Storage Capacity:	2,300,000 bbls
Water Depth:	75m (246ft)
Fabrication:	Turret - Singapore Vessel Conversion - Singapore

Design Environmental Criteria [100-year storm]

Significant Wave Height:	8.6m (28.3ft)
Wind Velocity:	44m/s (85.5 knots)
Current:	0.6m/s (1.2 knots)

Mooring System

- 10-leg Symmetric catenary wire/chain:
- 123mm Spiral strand wire
- 6-in. Stud link ORQ
- 4.375-in. ORQ +20% top chain
- 52-in. Ø Anchor piles



FSO Ta'Kuntah

(Continued)

Turret

External Cantilevered Bow

Fluid Swivel Assembly

Product Fluid Swivel:	Crude oil 2 x 16-in. [250 psi design]
Hydraulic Utility Swivel:	5 x 0.5-in. paths
By-Pass Swivel:	24-in. 150# flange crude oil

Riser System

2 x 16-in. Flexible risers

A decorative blue wave graphic at the bottom of the page, starting from the left and curving upwards towards the right.