

## IE-TEPS - FPSO

**Client:** Irvine Engineering

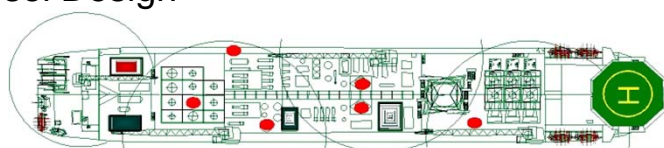
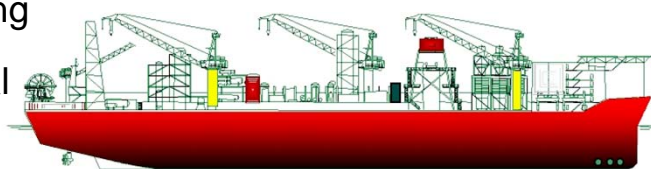
**Project:** Various Proposal

**Scope:** Conceptual Vessel Design

**Date:** 2013

**Manhours:** 3,900

**Location:** North Sea



### Project Description

The vessel is a ship shaped FPSO producing stabilised crude and methanol. The vessel was designed to meet the needs of moderate sized fields. Capable of handling up to 5 risers with station keeping through either dynamic positioning or turret based moorings.

### Irvine Scope

Develop a front running design for the production of both oil and then gas to methanol within a monohull vessel. The design name is TEPS (Total Energy Preservation System) and was originally proposed for the Norne field development. The main feature is the ability to offer full field recovery. An added feature is comparatively far less flaring when compared to normal gas recovery, making the design more environmentally acceptable.

### Principal Particulars

Design Status :	Concept
Application :	Benign to severe environments
Length :	208.0 m
Breadth :	35.2 m
Depth :	21.5 m
Storage :	50000 m <sup>3</sup> Oil 11000 m <sup>3</sup> Methanol
Construction :	Double hull steel structure.
Topsides :	Oil production 10000 m <sup>3</sup> /d (60000 bbl's/d), Methanol production 1000 m <sup>3</sup> /d.
Alternative Use:	-
Docs. Available:	General arrangement drawings Structural arrangements Marine systems schematics Outline technical specification

