Design Profile

IE-BOX 80 FPSO

Client: Irvine Engineering
Project: Various Proposals
Scope: Advanced Concept
Date: 2008
Manhours: 4,600
Location: North Sea

Project Description
The unit is a low cost square barge shaped FPSO designed to meet the needs of marginal to large fields. Capable of handling typically up to 18 risers. A simple spread mooring system is used for station keeping. In shallower waters can be used with a bridge link to a minimum facility wellhead platform.

Irvine Scope
Develop a minimal cost FPSO with out the need for a turret/swivel which is it’s main design benefit. The design was originally proposed for the Durward/Dauntless proposal. The design has comparative motions to conventional FPSO’s making it a lower cost alternative.

Principal Particulars
Design Status: Design, analysis and model tests completed. Lloyds approval in principle
Application: Moderate to severe environments
Length: 69.0 m
Breadth: 69.0 m
Depth: 35.58 m
Storage: 80000 m³
Construction: Stiffened steel flat plate sections. Double side shell structure
Topsides: ‘Plug and Play’ Process or field specific concept. Maximum topsides weight approximately 10000 te
Alternative Use: FSU
Docs. Available: General arrangement drawings, Tank plans, Model test report, Safety review report, Marine systems schematics, Structural arrangements, Systems schematic