

Design and Commissioning of a New Thruster Assisted Mooring System (TAMS) For Global Producer III

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Abstract

The paper describes the new Thruster Assisted Mooring System (TAMS) designed and installed on the Global Producer III turret-moored Floating Production Storage and Offload FPSO. The system is the first of a new generation of controllers, which include enhanced hardware, a new Human Machine Interface (HMI) and a new, robust control system specifically for moored vessels. Also included is an Advisory Prediction System (APS), based on the same hardware and HMI.

The control system has been redesigned to remove the reliance on measured anchor tensions, which have proved to be notoriously unreliable, and to minimize uneconomical thruster activity. It includes new modes of operation, which reflect the desired usage and complement the mooring system, rather than fighting it. Anchor-break detection logic enables anchor breaks to be reliably identified.

The APS includes the latest models of anchor catenaries and turret-moored vessel. It includes all of the required functionality for DNV classification.

The experiences and results of commissioning during January and February 2007 are presented, reinforcing the success of the new systems.

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