

Title: **Design Issues and Failure Modes in OSV Propulsion Systems**

Author: **Russell Hodge, C-MAR Group, Foix, France**

Abstract

The choice of propulsion and thruster equipment for offshore service vessels is dependent on a number of factors which the designer and operator must take into account when considering the construction or modification of a vessel. When Dynamic Positioning is included into the design these choices become considerably more complex.

New technology has introduced new machinery control concepts which are having radical effects on traditional designs.

This paper considers three different thruster, propulsion and power arrangements which have been introduced for OSVs, their integration into the DP System and areas of particular importance to the FMEA practitioner.

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