

Title: DP FMEA Challenged by Innovative Technologies

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Abstract

Innovative Dynamic Positioned (DP) vessels power distribution networks with a complex array of components working independently of each other or interacting with each other are becoming the norm rather than the exception. The accuracy of DP FMEA's for innovative approaches becomes ever more important and inaccuracies in the DP FMEA typically has operational consequences for the DP vessel. A review of a large variety of DP FMEA's suggests that in particular for innovative vessels, DP FMEA's regularly fail in covering all relevant components of an innovative power generation and distribution network. Furthermore, with the increased possibilities of operational configurations that comes typically with innovative DP vessels, DP FMEA's regularly fail to specifically state which configuration the DP FMEA was based on, contributing to vessel owners selecting configurations not necessarily providing the most robust set up. Covering all innovative aspects of a power distribution network from a DP vessel in a FMEA requires close cooperation between stakeholders. This paper attempts to increase awareness in the industry that an increased level of detail is required in DP FMEA's when it pertains innovative DP vessels. In order for that to happen we suggest that an increased cooperation is required between DP FMEA providers, manufacturers, shipyards and vessel owners during the DP FMEA process.

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