

Abstract 033 – DNVGL

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Presentation Title: Practical experiences and guidelines on how to use DNV GL DP Capability standard ST-0111

Abstract:

There is increased awareness of the significance of the Station Keeping Capability considering site-specific environmental conditions and Post Failure Capability. Concerns have emerged also regarding a vessel ability to maintain position/heading within defined limits during transient conditions. At the same time, the need for tools for fair comparisons of the station-keeping performance of different vessels has arisen. In July 2016, DNV GL published a new standard for the assessment of vessel DP capability, DNV GL ST-0111 aiming at proving a tool to assess the DP performance with different levels, depending on the operational risk, the accuracy needed and comparability of results. A revision has been published in March 2018. Together with the standard, a web-app was also developed and released on www.veracity.com. The web-app can be used for Level 1, 2 and 2-site.

The main challenge that have emerged is on how to apply and use the standard since there are 5 different levels available. This has resulted in ambiguous tender specifications and wrong applications.

The main goal of this paper is to show practical uses of the different levels in the DNV GL ST-0111 standard and how the results from the different levels compare to each other. This paper will provide guidance on how to use the different levels of the standard and how these could be applied to different operations, risk-management, costs and operating locations.

A comparison analyses performed between different levels will be presented for different vessel types: single stern thruster diving vessel, walk2work vessel and a drillship. Practical experiences of the use of the standard so far will be also shared.