

Title: DNV GL DP Capability – A New Standard for Assessment of the Station-Keeping Capability of DP Vessels

Authors: Aleks Karlsen, Luca Pivano, Eivind Ruth, *DNV GL*

Abstract

The paper will present the new DNV GL standard: ***DNVGL-ST-0111 Assessment of station keeping capability of dynamic positioning vessels***. It describes the principles behind the new standard, called DP Capability for short, and the methodology provided for calculating and presenting a vessel DP capability in three different levels: DP Capability Level 1, 2 and 3. The three proposed methods for calculating DP capabilities of vessels, which were developed in order to ensure reliable input to risk evaluations and decision processes, are presented.

The paper demonstrates how the three different DP Capability levels provided by the standard can be used to ensure owners, operators and other stakeholders DP capability information suitable for vessel selection, assessment and comparison. The paper discusses how the standard provides a uniform basis for verification of the calculated results. DP Capability level 1 will also be supported by a web based software application provided free of charge to the industry on the My DNV GL portal. This software tool is also presented.