

Title: Enhanced DP Control Systems

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Abstract

DNV and ABS has extended their DP notations. DNV has the new notation DYNPOS-E/ER, and ABS has extended the DPS-2 and DPS-3 notation with EHS-C. Both notations are introduced in order to achieve more reliable DP control systems that utilize the technology within modern marine power plants. The new notations will have impact on both the DP control system arrangement and the functionality in the DP control system.

The DP control system must be designed with more separation on the communication links, as for a main DP control system and an independent joystick system. The new notations allow the DP control system to take into account standby start of generators and changeover of thrusters and generators when calculations are performed for available thrust and power.

This paper presents adaptations made in the DP control system in order to gain enhanced reliability and so that the DP control system will fulfill the new class notations[1], [2].

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