

A New Concept for Fuel Tight DP Control

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Abstract

This paper discusses the *GreenDP*[®] and the controller's two main parts, the Environmental Compensator and the Predictive Controller. Compared to existing DP systems, the new concept named *GreenDP*[®] is designed with focus on reducing fuel consumption. DPs have traditionally been designed to obtain a “bull's eye” station keeping performance in a changing environment. The new design emphasizes keeping the vessel within its operational boundaries. In deepwater operations, e.g. drilling, quite large operational areas may be permissible.

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