DP Design Studies

Authors: Arild Gonsholt and Bjørn Nygård, *Kongsberg Simrad, Norway*

Abstract

Kongsberg Simrad works in close co-operation with its clients also in the design phase of a DP (Dynamic Positioning) vessel. This paper presents the typical major elements of a detailed design study for drill ships or semi submersibles:

- DP capability analyses in the frequency domain to assess DP capability in typical operational and failure modes
- Performance simulations to assess station keeping accuracy, DP power usage and to investigate control strategies, DP operations and for moored vessels; mooring systems
- Drift-off and drive-off simulations to investigate the effects of single and double failures causing drift-off and drive-off and to assess typical time-to-limits

Click here to review the complete paper ▶

Click here to review the Power Point Presentation ▶

Click here to return to the session directory ▶