

Abstract 027 – Systems Engineering International

Position Reference for DP – A New Look from A Systems Engineering Approach

Position reference processing for Dynamic Positioning (DP) is presently carried out within the DP system with the position reference sensors interfaced to the DP controllers.

The implicit objective of position reference for DP is to be able to maintain the vessel on location by providing 100% availability of vessel position information sufficient for DP closed loop control. If this objective were explicitly stated, then the approach taken might be somewhat different from what is being done now, especially when an inertial navigation system (INS) is part of the position reference equation.

How did we get to where we are now, and is it time to take a new look at position reference for DP from a systems engineering perspective?

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