

FMEA – Fail to Meet Expectations Again?

Author: Doug Phillips, *Global Maritime Inc., Houston*

Abstract

A Failure Modes and Effects Analysis (FMEA) is required by class for any Dynamically Positioned (DP) vessel for Class 2 or Class 3. There are however justifiable concerns over the adequacy of this technique and the quality of many FMEAs that are produced for DP vessels. For instance - why are some many single point failures still found after and FMEA has been performed? This paper will examine the problems of FMEA applied to Dynamic Positioning plus the standards and requirements for FMEA, that are or could be used to ensure a more adequate FMEA is obtained. The problems and limitations of FMEA are discussed and industry standards reviewed. The qualifications and competence required of the FMEA team will be discussed and guidelines given. As will the level of detail required of the analysis and the testing.

The paper should assist any shipyard, vessel owner or oil company in understanding FMEA, specifying an FMEA and assessing its adequacy and correct level of detail. The process of FMEA is not perfect, this paper seeks to show how it can be made better. The paper is an extension of a part paper presented at the MTS DP conference in 1997 in conjunction with Howard Shatto

[Click here to review the complete paper](#) ►

[Click here to return to the session directory](#) ►