

Session – Quality Assurance

Title: [FMEA\(A\) - Fail to Meet Expectations Again \(Again?\)](#)

Authors: [Doug Phillips, DP Expertise](#)
[Brian Haycock, BHDP Services](#)
[Steven Cargill, GL Noble Denton](#)

Abstract

In 2001 a paper was presented at the MTS DP conference discussing the adequacy of DP system Failure Modes and Effects Analysis (FMEA) - Fails to Meet Expectations Again. Since then many FMEAs have improved considerably, with those improvements being led by one major operator, one major vessel owner, one main DP FMEA supplier and IMCA guidance. All of which has 'raised the bar'. However, in the authors' combined experience of producing comprehensive FMEAs and reviewing 100 or more FMEAs as part of Shell's DP Vessel approval process, many FMEAs are problematic to produce and may overlook many potential single point failures. The paper will identify where in the authors' experience FMEAs have improved, but also present where the FMEAs still miss many failures modes and operational constraints.

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