

Single Point Failures in Traditional Implementations of Power and Load Management Systems.

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Abstract

Vessels granted Class 2 notations, and above, are expected to withstand the effect of any single technical failure.

The use of traditional load control philosophies has resulted in a number of vessels with inherent generating plant load control single point failures obtaining DP2 notations and entering service.

The paper discusses commonly used system philosophies and designs and identifies potential weaknesses in their implementation.

The paper also discusses:

- Basic generator load control principles
- Traditional load sharing techniques using both analogue and digital methods.
- Common design errors in Class 2 implementations
- Techniques which have been developed to overcome standard design deficiencies and new solutions under development.

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