

The Application of Improved Dynamic Positioning Control Techniques and Advanced Acoustic Waveforms To Improve Performance In Deepwater and Ultra Deepwater

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Introduction

Deep water (1000m to 3000m) and ultra-deep water (greater than 3000m) presents many new challenges for dynamic positioning. Increased water depth allows the positioning accuracy to be relaxed compared to that required in shallower water. In addition, the dynamic positioning system must be able to continue operation on acoustics only in the event of loss of the DGPS system since in deep water and ultra-deep water, three separate positioning sensors are not available.

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