



**Asset Guardian<sup>®</sup>**  
**SOLUTIONS LIMITED**

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# CASE STUDY

**Offshore Management of Change  
and Auditing Solution for Stena Drilling**



## BACKGROUND

Stena Drilling operate multiple vessels all over the world and maintain four ships for their deepwater drilling and two semi-submersible drilling rigs.

Asset Guardian Version 5 is installed on each of the vessels and a single central server at their Aberdeen head office.

Stena Drilling uses Asset Guardian to inventory all automation and control equipment, and software. Asset Guardian is also used for the management of change of software, replacing a paper-based system of software control forms.

Stena Drilling opted to put procedures in place to ensure that a uniform system of using Asset Guardian was applied. This would counter problems including:

- Multiple vessels of different types, ages and histories.
- Divergence of different existing systems/lack of uniformity.
- Hang ups from paper based/spreadsheet systems.

## SOLUTION

The key actions of the audit were to:

- Verify control equipment detail held within Asset Guardian against physical equipment.
- Verify software module backups stored within Asset Guardian are correctly named, recorded and version controlled.
- Verify software module versions match between Asset Guardian and the live software in use.
- Verify software control forms are being raised, managed and closed correctly.
- Records Inhibits and Overrides systems in place on the vessel.

Observations are compiled into a set of recommendations and management summaries. The Report is then reviewed and submitted for comment through a document control cycle.



Issues highlighted in the audit report are then actioned either by Stena Drilling or Asset Guardian depending on where the recommendation is targeted.

The audit procedure may be adapted to take into account any decisions made on the usage and management of software stored in Asset Guardian, whilst ensuring as wide a coverage as possible is achieved by planning future audits based on the findings of the previous ones.

## THE RESULT



Stena Drilling can now plan, coordinate and manage their backing up and recording of all software and information into Asset Guardian.



Each vessel has been audited multiple times and each consecutive audit is tailored to focus on particular issues and recommendations that have been previously raised.



Management of Change, Risk Assessment and Auditing in the Oil & Gas sector is essential. Two out of the five MIST modules deal with these subjects.



Independent audits by AGSL are superior to internal auditing where systematic problems can increase until a change of thinking is triggered by a catastrophic event.



The AGSL audit process provides Stena Drilling with a clear view of how their Application and Control Software management system is being used and how it can be improved.

**Installed on  
6 Vessels**

**In compliance with  
IEC 61511  
IEC 61508**

**Cyber Risk  
Management**

**Independent  
Auditing**