Songa Equinox Cat-D Drilling Rigs Maintenance Engineering



Operator/ Client: Songa Offshore

Project/ Location: Equinox CAT-D Drilling Rig/ South Korea and Norway

Scope of Services: Maintenance Engineering

Project at a glance:

Songa Offshore is an International Midwater Drilling Contractor with a strong presence in the harsh environment North Atlantic basin. Songa Offshore currently operates a fleet of five rigs. Its fleet is growing and it will soon be a dominant contractor in Norway where it will soon hold position as Statoil's largest drilling services provider.

Statoil has awarded Songa Offshore for the supply of four new build cat-D semi-submersible rigs. The four drilling rigs constructed by DSME in Korea are specially designed for harsh North Sea environment to meet Statoil requirements.

Aramis was awarded the Maintenance Engineering Services by Songa Offshore. The project's planning Milestones are:

- ME Services Contract award to Aramis: January 2014
- ME Services completion: March 2015















Maintenance Engineering Services



Aramis' scope of work

Detailed Asset Register

- Development of the Asset Register Methodology including guidelines and templates.
- Development of the Rig Asset register using AMS Database software including key attributes, parent-child links and failure structure in accordance with OREDA 2009.
- Develop CMMS load files.

▲ Detailed Inventory Database

- Conduct the processing of all 5 years operations spares.
- Development of the Inventory Database Methodology including guidelines such as naming convention.
- Develop the Spare Parts Interchangeability Lists.
- Development of the Inventory Database including key attributes and used to identify duplicates parts.
- Definition of min/max stocks Levels

▲ Tag Criticality Ranking

 Definition and processing of tag criticality ranking in the database.

▲ Safety Critical Element Study

- Identification of SCE Tags and assignment of relevant DSHA Number.
- Definition of Performance standards, assurance task and frequency for all SCE.

▲ Generic Maintenance Strategies and Services Books

- Development of a GMS Methodology.
- Development of Generic maintenance strategies for each Equipment Class & Equipment Type, including FMEA studies.
- Development of Service books to cover short frequency maintenance.

▲ Generic and Specific Job Plans

- Development of user-friendly formatting generic job plans suitable for majority of Equipment of the same Class.
- Development of Specific Job Plans for all tags where the Generic one cannot be used.
- •Optimization of the planned maintenance program by merging Job Plans.
- •Development of a five year overall maintenance schedule.

▲ Review After Sail Off

Review of all documentation and data in order to integrate the "As-Built documentation" changes.





