

CASE STUDY: BEST PRACTICE IMPLEMENTATION

CLIENT CHALLENGE

The case study reported in this paper has been conducted at multiple Floatel vessels globally (global implementation for organisation), managed from UK and Sweden. The management of the company, through several surveys, identified that the maintenance strategies and tasks were ineffective, leading to and causing:

- multiple equipment failures
- High maintenance and operational costs
- Poor reliability
- Poor Regulatory compliance

SOLUTION

The objective of this program was to:

- Carry out RCM studies on critical and non-critical equipment
- Evaluate existing maintenance tasks and strategies
- Evaluate existing spares lists
- Optimise PM strategies and tasks
- Optimise Spares

Executing these analyses and implementing the results throughout the Floatel fleet will enable Floatel to establish best practice asset management and improve equipment reliability and repeatability of processes (variation reduction). A study of 28 systems was carried out and the results fully implemented into the CMMS from their central office in Sweden. This will establish:

- Standardised and optimised PM tasks
- Introduction of Condition Monitoring tasks where applicable
- Optimised Spares based on engineered approach
- Regulatory compliance
- Fully implemented best practice asset management

PROJECT REALISATION

PSW Integrity carried out the RCM studies for the systems and identified thousands of failure modes. Using the results, PSW Integrity and the team fully developed Floatels spares lists, PM tasks, operator care routines, CM programmes, and eliminated many wastes from their existing systems.

Full compliance towards DNV has been seen and regulatory compliance for Australia, Brazil, UK, Mexico, Norway has been achieved to enable floatel to safely operate their vessels within the waters.

PROJECT IMPACT

The overall programme was designed to leave a legacy of self-sustaining improvements. The benefits realised by Floatel are:

- Optimised inventory
- Optimised and best practice management of equipment
- Regulatory compliance

- Increased safety
- Reliability improved significantly
- Operational costs reduced