

Assurance Delivered for Oil Rig Safety and Reliability of Well Control Equipment

Challenge

Track incidents and demonstrate corrective measures to satisfy regulatory requirements.

Solution

Implemented a failure tracking and corrective action management system that interfaced to the regulatory system.

Results

Streamlined incident tracking procedures for improved reporting compliance. System provided greater visibility to issues and enabled corrective actions to be identified.

Well Control Equipment (WCE) safety and reliability are major concerns in the Offshore Drilling industry, especially after the Blue Horizon accident. The Blow-Out Preventer (BOP) is a centerpiece of the safety strategy. Its purpose is to shut off flow from the well in the event of an incident. Industry regulations have put a greater focus on BOP operability and Oil Rig Operators are now required to report BOP incidents to a governing body. Prenscia Solutions worked with the client to implement a system that manages failures and subsequent corrective actions, and their impact.



nCode

ReliaSoft

Onnicon

The Challenge

In an effort to keep BOP system failures at a minimum, offshore drilling engineers need to identify key issues and manage corrective actions. Industry regulators expect complete transparency for any BOP incidents and Operators are expected to self-report incidents.



The Solution

Consulting with the client, Prencia Solutions implemented a Failure Tracking and Corrective Action management system. The system records each BOP incident and provides a problem reporting workflow system to manage corrective actions.

Special tools were developed to interface the incident reporting with the Rapid-S53 self-reporting system.

The Results

BOP incidents can be more efficiently and accurately logged into Rapid-S53 – increasing visibility to open issues and ensuring ongoing compliance with industry regulators.

The central Corrective Action system enhances the WCE maintenance program. It simplifies incident tracking and enables corrective actions through a documented process, leading to improved safety, lower risk, reduced negative impact on environment, faster and better decision making, and promotes greater system reliability throughout the WCE lifecycle.



About HBM Prencia Solutions

HBM Prencia Solutions ensures customer success through value-driven solutions for product and process development, and operational monitoring. We are a multi-disciplinary team with expertise in failure analysis; predictive analytics and modeling for reliability, durability, and deterioration; asset health and usage monitoring; prognostics; development and testing of embedded software and electronics to deliver robust solutions to our global clients. Our team of engineers, analysts, software developers, data scientists, and program managers, many holding United States Government security clearance, are readily available to provide technical expertise and deliver value-driven solutions. For more information, please visit www.hbmprencia.com/solutions