


ProcessSafety 

Ensuring Asset Integrity within the Oil & Gas Industry

Delivering Increased Performance and Proactive Asset Management

As we emerge from a decade of cost control and extensions to the production envelope of ageing assets, a need for fresh thinking among process safety professionals is required in order to optimise operational and production performance, integrity and safety.

For the Oil & Gas industry, the advent of KP4 once again brings in to focus the need for operators to be able to evidence competence in the management and awareness of key process safety performance indicators (KPIs). Until completion of the KP4 audit of assets, currently targeted for September 2013, the UK Health & Safety Executive (HSE) will be taking a keen interest in how the potential issues around asset ageing and obsolescence are being managed. Specifically, their focus will be on how leading and lagging process safety indicators are being proactively monitored.

Solution

Utilising over 20 years experience across all facets of the Energy industry, Amor Group has developed ProcessSafety+, a business process improvement initiative for Oil & Gas operators.

"Amor Group's industry consultants helped us to define and document all our core process safety KPIs whilst their experienced software development team allowed us to create a best-of-breed technical KPI dashboard solution which fully integrates with our existing IT infrastructure, and allows us to monitor our progress in near real-time."

Martin Sedgwick, Head of Asset Management, ScottishPower

Features

- Holistic process improvement approach to the implementation of a Process Safety Management System specific to the business
- Pragmatic use of existing IT infrastructure to ensure a cost effective solution
- Consultative application of HSG 254 and to the identification of asset-based risks and the definition of leading and lagging KPIs
- Fully automated near real-time KPI dashboard solution presents calculated key performance indicators at all levels throughout the organisation

Benefits

- Improved assurance of control over major hazard risks
- Establish governance and review process that minimises human and financial risk
- Reduction in operations and maintenance costs
- Increased asset availability
- Transition from corrective to preventative maintenance culture



Solution

ProcessSafety+ improves operational efficiency, with high levels of production performance, asset integrity and employee safety by creating a culture which acknowledges the human factors in the management of process safety. The system demonstrates a 'duty of care' through the implementation of a best practice methodology and management system that proactively monitors Risk Control Systems with analysis of recorded incidents and near misses.

The ProcessSafety+ methodology focuses on identifying the maturity of an organisation's approach to process safety, working to enable rapid deployment and implementation of a Process Safety Management System. This is achieved by defining and capturing leading and lagging people, asset, process and environmental indicators which are measured and presented using an automated KPI dashboard.

This dashboard can be used to provide near real-time access to KPIs at all levels throughout the organisation, aggregated at the appropriate level for each specific staff member, supporting organisations in achieving successful KP4 audits through a strong process safety ethos and a robust approach to the management of key leading and lagging indicators.

Track Record

Now, more than ever, the need for effective process safety governance and oversight is paramount, not only in the Oil & Gas industry, but through every process-based organisation. This is further evidenced by an increased desire from senior and executive management teams to gain access to near real-time information on key asset performance indicators and on a desire to define and roll-out measures to identify and track key leading and lagging indicators.

Through Amor Group's approach to process safety, ScottishPower were able to transform their organisation into one of the leading global exponents of process safety, proven in their recent award for innovation in process safety from the IChemE and one of the first case studies being produced jointly by the HSE.

ScottishPower has realised significant improvements across the business both in terms of asset management, production efficiency and bottom line contribution, including:

- 29% reduction in Operations and Maintenance costs;
- 22% increase in Asset Availability;
- 10% reduction in Annual Insurance Premium.

