BUSINESS CHALLENGE

The management of physical assets - selection, maintenance, inspection and renewal - plays a key role in determining the operational performance, safety and profitability of your industry. Deterioration processes such as fatigue cracks and corrosion can always be present to some degree. The challenge to management is to ensure that the integrity of engineered systems – for instance, offshore structures, ships, pipelines and process systems – is maintained throughout the anticipated service life.

SOLUTION

What is Asset Integrity Management?
The objectives of an Asset Integrity Management (AIM) system are the delivery of business requirements maximizing return on assets whilst maintaining stakeholder value and minimizing business risks associated with accidents and loss of production. Asset Integrity is the ability of an asset to perform its required function effectively and efficiently whilst safeguarding life and the environment. The related management activities ensure that the people, systems, processes and resources which deliver integrity, are in place, in use and fit for purpose over the whole lifecycle of the asset.

What are the key benefits?
AIM ensures that the assets stay fit for purpose – safe and operational – under all circumstance. Asset integrity management delivers:
- Safety improvement;
- Reliability improvement;
- Optimisation of maintenance and inspection activities to meet safety and business targets.

WHY CHOOSE BUREAU VERITAS?

Bureau Veritas has significant experience in AIM in all parts of the world for leading oil and gas companies such as Total, Sinopec, Petrobras, QGPC and Exxon:
- Risk-based Inspection strategy implementation
- In-service inspection with routine and specialist Non Destructive Testing (NDT)
- Condition-based Maintenance including optimization studies and RCM
- Vibration Induced Fatigue Failure solutions
- Pipeline Integrity Management services

The Bureau Veritas global network provides unparalleled access to specialist AIM services.
OUR APPROACH

Bureau Veritas carries out an initial screening survey to understand the key issues such as: governance, implementation of process or information management. This is followed by a 3-stage process:

■ **Risk assessment** – identify the integrity-critical plant elements and their modes of failure.
■ **Management decisions** – define performance standards, develop and implement the programmes for inspection, maintenance and audit.
■ **Reporting and follow-up** – live status reports, interpretation and feedback.

Bureau Veritas will develop and implement Risk-based Inspection / corrosion-management programmes, provide qualified inspectors and carry out investigations of incidents to identify and remedy root causes of failure.

FAQ

**When the price of oil was low, we cut expenditures on all operating costs. Now it’s high and we just need maximum productivity. Can you deliver a productivity service?**

Yes! The power of AIM can be targeted at any feature required by the client, so we can offer maximum plant availability study on all units in a production chain, whilst still highlighting client cost options.

CASE STUDY

Bureau Veritas is delivering Asset Integrity Management services to Total’s upstream assets in UK – the oil and gas production platforms and the St Fergus onshore gas receiving terminal.

The work scope covers the management and undertaking of all NDT type activity including provision of inspection personnel offshore, management and tracking of all anomalies found, and corrosion, structural and other engineering support with respect to assessment and remediation of any problems found:

■ Full quantified Risk-Based Inspection (RBI)
■ Inspection management - workpacks, planning etc.
■ Highly qualified inspection workforce
■ Corrosion engineering assessment
■ Laboratory support for failure analysis
■ Pipework fatigue modelling

CONTACT

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