



**BUREAU
VERITAS**

Bureau Veritas **Services**

ASSET INTEGRITY MANAGEMENT

Staying fit for purpose over the whole lifecycle.

SERVICES

- Maintenance Master data
- Process safety critical equipment (PSCE)
- Asset maintenance strategies and plans
- Operating and maintenance procedures
- Failure analysis
- Reliability studies
- Fitness for service (FFS) assessments
- Training
- Compliance audits
- Corrosion control plans
- Machinery safety inspections
- Risk-based inspection (RBI) studies
- Pipeline integrity management systems (PIMS)
- Hazardous area classification



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 an organisation. Deterioration processes such as fatigue cracks and corrosion can always be present to some degree. The challenge is to ensure that the integrity of engineered systems – such as structures, pressure vessels and piping, pipelines and process systems – is maintained optimally throughout the anticipated service life of an asset.

SOLUTION

What is asset integrity management?

The objectives of an asset integrity management (AIM) system are the delivery of business requirements, maximising return on assets, while maintaining stakeholder value and minimising 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, while at the same time, safeguarding life and the environment. The related management activities ensure that the people, systems, processes and resources that 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 circumstances. It delivers safety improvement; reliability improvement; and optimisation of maintenance and inspection activities to meet safety and business targets.



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 three-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 develops and implements risk-based inspection/corrosion-management programmes, provides qualified inspectors and carries out investigations of incidents to identify and remedy root causes of failure.



WHY CHOOSE BUREAU VERITAS?

Bureau Veritas has significant experience in AIM across the globe and provides unparalleled access to specialist AIM services. The company's comprehensive AIM services are further supplemented with in-service inspection with routine and specialist, non-destructive testing (NDT) to provide a one-stop solution for AIM to our clients.

INDUSTRIES

- Chemical and petrochemical
- Mining
- Oil and gas
- Power generation
- Processing/manufacturing
- Buildings and infrastructure

CONTACT

For details about this service, please contact Bureau Veritas:

- Technical Centre Manager
- Office: +27(0) 13 932 5449
- Email: tech.centre@za.bureauveritas.com

FOR MORE INFORMATION

Please visit:

- www.bureauveritas.com