

Bureau Veritas, *Your Compliance and Risk Mitigation Partner*

Established in 1828, Bureau Veritas is a professional services company whose overriding aim is to provide its clients with all the necessary services required to achieve, maintain and demonstrate compliance with their Quality, Health & Safety, Environment and Social Accountability (QHSE/SA) obligations. At the heart of our services, you will find an underlying law, regulation, standard, elected specification, or similar criteria driving a client requirement.

Our services are then designed to respond to these requirements by either advising clients of their risks and most appropriate course of action (consulting), assessing and monitoring the status of physical assets (inspection and testing services) or assessing the effectiveness of management systems (assurance/audit and certification services).

Bureau Veritas is a listed company with a network of 940 offices and 52,000 employees in 140 countries. As such, it is uniquely placed to provide you with a coordinated global service to support a specific business requirement.

In this service portfolio dedicated to the Oil & Gas industry, we aim at providing you with an overview of our range of services which can be grouped and led according to your specific needs.

An Extensive Geographic Footprint



Americas

- 185 offices
- 90 laboratories
- 12,700 employees



Europe, Middle East & Africa

- 535 offices
- 120 laboratories
- 21,300 employees



Asia - Pacific

- 220 offices
- 130 laboratories
- 18,100 employees



**BUREAU
VERITAS**

Move Forward with Confidence

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Pipeline Integrity Management



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Bureau Veritas's Pipeline Integrity Management Approach

The Pipeline Integrity Management concept combines a general quality management approach with specific pipeline related expertise. The whole can be made automated in a software suite.

The Pipeline Integrity Management (PIM) approach applies to onshore and offshore pipelines from upstream to downstream facilities along the entire lifecycle. Using this approach allows the integrity analyst to:

- Prioritize pipeline segments for integrity surveillance purposes;
- Determine the most effective corrective actions;
- Assess the benefits of corrective actions by means of what-if scenarios;
- Produce a qualitative threats assessment for further use in the integrity management plan.



A step-by-step strategy

- > Assess compliance of the operator's practices with pipeline integrity standards (through audits, voluntary or not).
- > Set up a pipeline integrity management quality system (through identification of processes, writing up of procedures and manuals).
- > Define the appropriate methodologies (risk-based, threat-based, etc.).
- > Perform high value technical analysis (such as risk analysis, corrosion study, etc.).
- > Assist and advise in the selection of the right pipeline integrity management tool.
- > Follow the development and the implementation of the pipeline integrity management tool and certify its conformity.



CASE STUDY

Proceedings of the 7th International Pipeline Conference – IPC2008-64123

TIGF in France chose Bureau Veritas to implement a PIM system. Bureau Veritas satisfied TIGF requirements by using the threats and mitigations module from the PiMSlider® suite which was extended with customized components to meet the specific needs of TIGF.

Fugitive Emissions Monitoring

Fugitive emissions are generated by leaks from process equipment such as valves, flanges, piping, etc.

This can result in safety, health, environmental and reputation issues. Cost implications can be significant.

Thanks to a strong methodology, Bureau Veritas can provide a robust fugitive emissions monitoring service using standardized measurement, quantification and reporting methods.



Non-Destructive Testing

Bureau Veritas is a highly recognized worldwide provider of non-destructive testing services in both capex and opex contexts for structural steel, process piping, pipelines, vessels, etc. using routine and advanced techniques and technologies.

RELATED SERVICES

- In-service inspection
- Fitness-For-Service (FFS) assessment
- Certification of management systems (Quality, Safety, Environment)
- Risk-Based Inspection (RBI)
- Design review and certification of assets
- Technical audits
- Data management
- Training
- Risk analysis

Bureau Veritas's Technical Center Network

Our technical center network is the backbone of the engineering expertise of the Group, bringing to our clients' doorstep the best of Bureau Veritas's knowledge in terms of design compliance appraisal and verification, asset integrity management, risk and safety studies.



■ Worldwide technical centers network