



OIL & GAS SERVICES

Move Forward with Confidence



**BUREAU
VERITAS**

Focus on a Client Reference

Providing one-stop service and innovative solutions in QHSE management

Petrobras relationship with Bureau Veritas has been well established for several years. Thus, the search for excellence in Health, Safety and Environment (HSE), an objective that has been included in and provided for in its strategic plan, led Petrobras to establish as one of its goals the certification of its units to international HSE management standards.

Moreover, the ambition of Petrobras and its will to discover new production fields require a more in-depth surveillance to ensure strong confidence in its suppliers. Bureau Veritas international network and, in particular, Brazilian offices, including the technical center in Rio de Janeiro, involve themselves through highly qualified inspectors and expeditors who are committed to achieving this goal.

Compliance

- Regulatory Watch
- Occupational Health and Safety Performance
- Environmental Performance
- Suppliers Technical and QHSE Assessment

Quality Management System Certification

- ISO 9001 and 14001 Certification
- OHSAS 18001
- Product Conformity and type approval
- National Content

Integrity

- Shop Inspection of Equipment for downstream and subsea
- On-Site Inspection
- Asset Maintenance Management: refineries, pipelines, ships and offshore platforms
- Risk and Safety Management

Offshore

- Oil Tankers and Gas Carriers Classification and Equipment Certification
- Offshore Floating Production Units and Drilling Rigs Classification and Equipment Certification
- Fixed Platforms, Pipelines and Risers Certification
- Technical Assistance and Outsourcing

Other References

ADNOC

Assets Certification
Drilling
IVB

BP

Classification
IVB of Assets
Sniffing
Supplier Assessment

CHEVRON

Classification
Field Site Construction
Control
Sourcing

SHELL

IVB
Verification

SONANGOL

Training

TOTAL

Asset Integrity
Management
Classification
Supplier Assessment



Our Oil & Gas expertise

Two axes to reach operational excellence

Quality Assurance / Quality Control

Successful companies are driven to deliver quality - from the way they operate, to the customer service standards they establish and the products they deliver. This is a strategic vision to improve brand equity and image and ensure you are better equipped to win in an increasingly competitive global marketplace.

Asset Integrity Management

Your organisation seeks to optimise the maintenance of its assets in order to keep them safe, reliable and in the best operating conditions. By providing you with a complete suite of inspection and measurement services throughout the life cycle of your assets, we will assist you in keeping your personnel and subcontractors safe, while minimising overall maintenance costs and improving the performance of your assets.

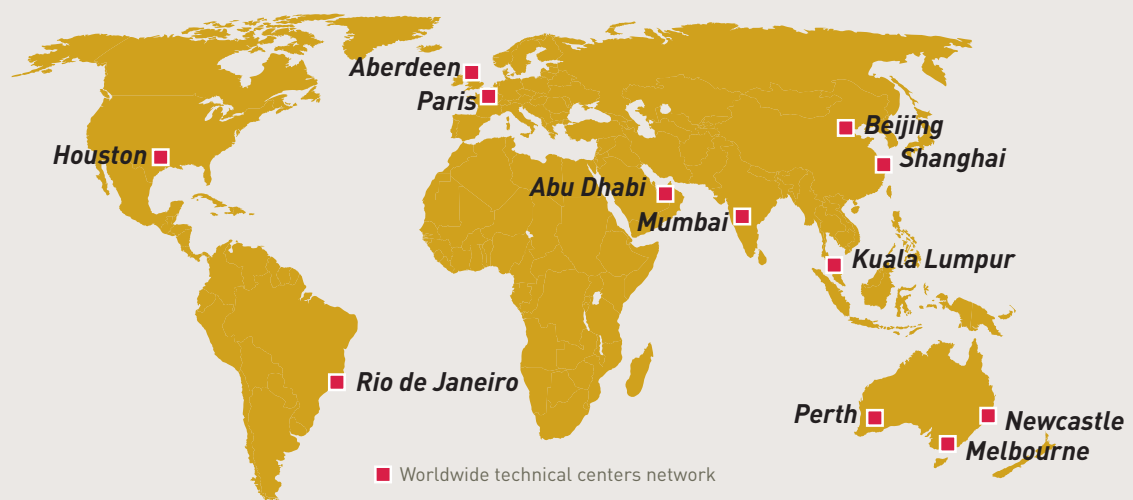


Bureau Veritas Technical Centers Network

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

Each Technical Center is staffed with highly qualified engineers of all disciplines, accumulating good track records of hands-on industry experience, able to address technical issues related to all types of Oil & Gas facilities, both onshore and offshore, from exploration to distribution.

Bureau Veritas Technical Centers' mission is to contribute to the safety of your installations, by verifying design compliance to standards, providing solid inspection engineering support, and helping you identify, quantify, reduce and manage the risks associated with operating your facilities.



Design Review

Design Review is an independent assessment of the project engineering phase that can be supplemented with independent analyses, performed by our specialist engineers.

The safe design of all types of equipment, offshore facilities (structures and topsides), onshore plants (from refineries to LNG terminals) and pipelines, in standard or extreme conditions (from desert to arctic environment), can be assessed through certification or verification schemes to suit our clients' requirements.

Classification

Classification is the appraisal of the level of compliance of a vessel to the rules set up by the class society.

Classification rules are developed to contribute to the structural strength and integrity of essential parts of the hull, the safety and the reliability of the propulsion and steering systems and the effectiveness of essential auxiliary systems of the ship. Bureau Veritas classes all types of ships and offshore floating units: oil tankers, bulk carriers, passengershops, containerships, gas carriers, offshore supply vessels, tugs and many others.

Verification

Verification is a scheme through which Bureau Veritas, as an Independent Verification Body (IVB), provides Independent Competent Persons (ICP) to verify throughout the life of an installation that the performance standards defined by the client for each Safety Critical Element (SCE) are achieved.

Defined originally within UK North Sea regulations, the implementation of such schemes has become common industry practice in key areas of the Oil and Gas world, such as the Middle East, Russia and Asia. Bureau Veritas' ICP workforce is deployed and operates on large verification projects in all these areas.



Certification

Certification of Installations means the assurance that it has been designed, constructed, commissioned and is operating in compliance with a defined technical reference as far as safety is concerned.

Certification is by far the most recognised and commonly delivered service provided by Bureau Veritas worldwide as an Independent Third Party.

Compliance

Compliance is mandatory. Some countries or zones have specific compliance criteria that are a challenge for all corporations.

Bureau Veritas helps clients to ensure the compliance of products and assemblies with local and/or international regulations through:

- Support as a second party
- Certification as an independent third party
- Product compliance studies
- Compliance market "intelligence"



Quality Assurance Scheme

Supplier Assessment

Supplier Assessment is a decision tool for purchasers who are coping with suppliers qualification and their ability to manufacture specified industrial components or provide services.

Bureau Veritas' typical deliverable is a gap assessment or analysis report, including recommendations to move forward and follow-up suggestions.

Shop Inspection

Shop Inspection involves inspecting items at their manufacturing location before delivery.

Our qualified local teams are familiar with inspecting kinds of supplies taking into account applicable regulations or other specific requirements: materials and components, mechanical equipment and machinery and electrical equipment.



Integrity Management

RBI

Risk-Based Inspection (RBI) is a process that identifies, assesses and maps industrial risks (due to corrosion and stress cracking).

During the RBI process, Bureau Veritas engineers design inspection strategies (what, when, how to inspect) that match forecasted or observed degradation mechanisms.

Risk-Based Approach applies to:

- Structures
- Pressure vessels
- Pipelines
- Tanks

Fugitive Emissions

Fugitive emissions are generated by leaks from process equipment such as valves, flanges and piping. This can result in safety, health, environmental and reputation concerns. Cost implications can be significant.

Thanks to its advanced methodology and IT tools, Bureau Veritas can set a robust fugitive emissions management program which will provide tangible benefits. Monitoring is performed in compliance with EPA and European standards.

NDT

Non Destructive Testing (NDT) covers the whole range of analysis techniques used in industry to evaluate the properties of a material, equipment or system without causing damage.

Bureau Veritas is a highly recognised worldwide provider of Non Destructive Testing services in both Capex and Opex context for structural steel, process piping, pipelines, vessels, etc. using routine and advanced techniques and technologies.

Chemical Risk

Chemical Risk Management and Safety Data Sheets

This is a core competence of Bureau Veritas' HSE Team, constantly monitoring rules and regulations, and working with clients, ensuring compliance and minimizing risk to employees, the environment and society.

We offer specialist services and tools to follow safety data sheets and chemicals throughout the value creation chain.

Our competence and software solution ('CHESS') is used by major players in the Oil and Gas Industry.



DRILLING

OFFSHORE

SUBSEA

LNG

DOWNSTREAM

Bureau Veritas, Your Compliance and Risk Mitigating 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 900 offices and 47,000 employees in more than 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

- 200 offices, including 100 laboratories
- 10,800 employees
- 30 countries



Europe, Middle East & Africa

- 520 offices, including 120 laboratories
- 20,500 employees
- 78 countries



Asia-Pacific

- 210 offices, including 110 laboratories
- 16,700 employees
- 37 countries



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For more information, contact Bureau Veritas:

67/71, boulevard du Château - 92571 Neuilly sur Seine Cedex - France

Tel: +33 (0)1 55 24 70 00

oilandgas@bureauveritas.com - <http://www.bureauveritas.com/oilandgas>