



PRESSURE EQUIPMENT INTEGRITY

Certifying the ongoing serviceability of process plants

BUSINESS CHALLENGE

Operators of process plants must conform to regulatory and insurance requirements for plant safety. The compliance and safety drivers need to be balanced against the cost of shutdowns for pressure equipment re-certification.

SOLUTION

Bureau Veritas offers a unique combination of services to ensure that pressure equipment integrity is managed in a cost effective manner with due regard for plant safety and production availability. By assessing the likelihood and consequence of failure using Risk Based Assessment (RBA) methods, the risk profile is developed. This allows the optimal inspection frequency and scope to be determined in order to control failure risk.

This risk based approach has been endorsed under the Australian Standard for in-service inspection of pressure equipment; AS 3788. The key to our success is in the integration of all aspects of the assessment into a seamless and coherent service. This includes inspection planning, scoping, execution and review. Such integration maximises the value of the service and ensures that the re-certification cycle is consistent, robust, auditable and gap-free. Based on the suite of services available from Bureau Veritas, a solution can be developed.

What are the key benefits?

- Provide compliance with performance standards (AS 3788, API) and with Australian regulations.
- Identify, prioritise and manage operating risk.
- Inspect at optimal frequency and scope to optimise cost/benefit.
- Identify and manage degradation mechanisms within the plant.
- Provide audit trail of integrity and risk management.
- Manage plant integrity to control lost production.

CLIENT REFERENCES

RBI assessment and inspection programs for pressure equipment are being delivered on an ongoing basis to a number of major clients in the O&G and Petrochemical industries in a number of states throughout Australia.

Bureau Veritas have implemented criticality assessment and targeted inspection programs for process piping systems, in Huntsman Chemicals, Australian Vinyls and Minara Resources.

WHY CHOOSE BUREAU VERITAS?

Recognition Founded in 1828, Bureau Veritas is a world leader specialising in conformity assessment services related to Quality, Health, Safety & Environment (QHSE).

Certified to ISO 9001 for all of its activities globally, Bureau Veritas is well known for its ability to adopt to changing client environments and cituations and for its commitment to providing leading.

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Knowledge & Expertise Through expert local teams and technical knowledge, Bureau Veritas are able to deliver packaged and targeted solutions and information, to support our clients' unique business requirements.

Network With a global network of over 900 locations in more than 140 countries, Bureau Veritas provides tailored solutions to clients throughout the world across a diverse range of industries.



OUR APPROACH

Local Specialist Engineers in our Melbourne, Adelaide and Perth offices provide specialised risk assessment services for process equipment and piping systems.

Bureau Veritas can provide RBI software solutions based on API 580/581, or alternatively client provided specifications.

From RBI assessment, targeted inspection scopes and frequencies are determined. Subsequently, inspection results are assessed to validate and update the RBI assessments.

FAQ - FREQUENTLY ASKED QUESTIONS

What are the fundamental differences between a statutory inspection program and an RBI program for pressure equipment?

A statutory program is based on a conservative approach that assumes minimal knowledge of the operation of the pressure equipment, whereas an RBI program sets intervals and scope based on identified equipment consequence of failure and likelihood of failure.

Intervals for RBI inspection are set based on a balance of risk control and cost.

Applying an RBI program creates an awareness of equipment integrity requirements and therefore allows selection of the most appropriate and less intrusive inspection methods.

RELATED **SERVICES**

- FEA to calculate stress profiles in operating plant and to evaluate design or operational changes
- Defect tolerance and Fitness for Service assessment based on AS and API standards
- Design Verification to AS 1200 and equivalent standards
- Engineering for Non Intrusive Inspection campaigns
- Strain Gauging for in-situ stress measurement
- Advanced NDT technologies

CONTACT

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FOR MORE **INFORMATION**

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