



BUSINESS ASSURANCE

ARE YOU ADDRESSING THE RIGHT RISK?

Risk Based Inspection Planning & Management

Assuring that pipes, tanks and pressure vessels continue to be safe when exposed to degradation requires a structured approach. The ability to prioritize and address high risk items can prevent threats of fire, explosions and shut downs.

Pipe systems, tanks, pressure vessels and associated equipment are exposed to degradation such as corrosion, fatigue and mechanical damage which lead to corresponding threats of fire, explosions and shut-downs. These threats need to be managed in a systematic approach to safeguard life, environment and property. To do so, the associated risks need to be identified and managed in a recognized and trustworthy manner.

Traditional inspection methodologies can work on a fixed-period basis whereas in the context of Risk Based Inspection, risk is considered as the product of the consequence and the probability of a failure event. This ensures that the objects with

high risk are prioritized and items with insignificant risk can be given less attention. Successful implementation of Risk Based Inspection by DNV GL's customers has been shown to both reduce maintenance costs and improve process availability.

How we can help

There is a structured way to manage the associated economic, safety and environmental risks in a systematic, documented and recognized approach. DNV GL has developed and offers a full range of Risk Based Inspection (RBI) Planning and Management services for piping, tanks and pressure vessels.

The objective of the RBI Planning and Management activities is to ensure safe and cost-optimized integrity management of containment systems on the plant, and thus, maximize the availability and production regularity while at same time ensure the safety for personnel.

The inspection management system also ensures an efficient experience transfer between different disciplines and locations and is a tool for continuous improvement.

The methodology is in accordance with recognized standards such as API 580, DNV RP G101 and the upcoming prEN 16991 **Risk Based Inspection Framework.**

Our services

DNV GL offers services tailored to our customer's organization, assets and needs. This can be categorized as the following:

- Training and experience exchange within Risk Based Inspection (RBI).
- Facilitation of RBI processes including GAP assessments and later potential technical audits of performance.
- Technical advisory within RBI, including performing the analysis and implementing the results.
- Risk Based Inspection management of the asset including day to day management of inspection, testing and monitoring activities.



Why partner with DNV GL?

Driven by our purpose of safeguarding life, property and the environment, DNV GL enables organizations to advance the safety and sustainability of their business. DNV GL is a leading provider of classification, certification, verification and training services. With our origins stretching back to 1864, our reach today is global. Operating in more than 100 countries, our 14,000 professionals are dedicated to helping our customers make the world safer, smarter and greener.

As a world-leading certification body, DNV GL helps businesses assure the performance of their organizations, products, people, facilities and supply chains through certification, verification, assessment, and training services. Partnering with our customers, we build sustainable business performance and create stakeholder trust.

For more information

Business.Assurance@dnvgl.com
assurance.dnvgl.com