



CORROSION CONTROL PLANS

Managing the risk of corrosion related failures through structured control plans.

Corrosion can significantly reduce the life of assets and asset systems. In some instances corrosion can account for more than 40% of an organisation's maintenance costs. Corrosion is one of the most active deterioration mechanisms in the industry and resulting failures can have significant financial, environmental and safety consequences.

A corrosion prevention and control (CPC) plan provides the means to actively manage the corrosion problem and can involve:

- Improving the materials selection during the design phase or with plant modifications; and
- Enhancing the performance of metals in corrosive environments using anti-corrosion systems (coatings, Galvanic cathodic protection, and impressed current cathodic protection).

Bureau Veritas performs standard testing or specific procedures according to our clients' field conditions. We have access to specialised laboratories to back up our consultancy services, specifically in microbiology influenced corrosion (MIC). Our approach involves:

- Identify the corrosion threats and where there is corrosion fatigue;
- Provide expert witness services;
- Calculate the rate of corrosion to determine the useful life of the equipment;
- Recommend suitable corrosion monitoring methods;
- Perform techno-economical analyses of corrosion control options and mitigation methods;
- Evaluate the feasibility of anti-corrosion solution selection;
- Document strategy and plan to prevent or control corrosion problems;
- Provide corrosion project management; and
- Bureau Veritas has comprehensive corrosion standard testing facilities as well as paint systems evaluation.



Key benefits

Applying a structured approach to prevent and control corrosion will deliver significant benefits, such as:

- Extended life expectancy of assets;
- Reduced number of unwanted failures;
- Reduced maintenance costs;
- Improved plant availability; and
- Improved safety in the workplace.

Related services

- Failure analysis
- Asset maintenance strategies and plans
- Process safety critical equipment (PSCE)
- On site metallurgical analyses
- Fitness for service (FFS) assessments
- Metallic material testing
- Non-destructive testing
- Risk-based inspection (RBI)