

## CORROSION MANAGEMENT SERVICES

**In a world where wastage is becoming more intolerable, emphasis is being directed at using less material and making assets last longer, Corrosion Management is becoming a significant factor in the way companies and organisations operate. Shareholders are now no longer interested in just profits but are now focused on the “triple bottom line”.**

WOOD GROUP INTEGRITY MANAGEMENT (WGIM) is an international based group of highly qualified engineers who are dedicated to the task of managing corrosion. An effective corrosion management strategy not only improves safety levels, reduces capital and production losses, but it also reduces the impact the organisation/company has on the environment.



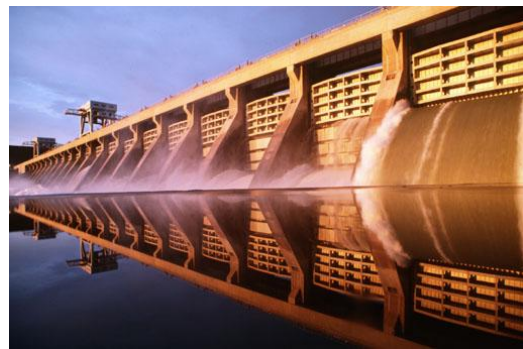
To successfully manage corrosion a multi-pronged approach must be adopted and systems must be established to manage:

- Designing structures to ensure that deleterious microenvironments are not created.
- Selecting suitable materials that are cost effective in terms of their life cycle, or immune to deterioration within the environment in which they are expected to operate.
- Fabricating equipment/structures using procedures that minimise the likelihood of damage throughout the service life of the asset. Protecting structures by applying suitable organic or inorganic coating systems, and/or applying cathodic protection.
- Inspecting assets to identify the existence and the rate of damage that is occurring, including the application of Risk Based Inspection techniques for the life cycle of the equipment/structure.
- Scheduling maintenance to avoid failure, especially when sacrificial components are used, i.e. development of an Inspection Maintenance and/or Replacement plans.

- Implementing monitoring programmes that will detect the onset of conditions that result in corrosion damage.
- Maintaining effective records so that lessons learnt are effectively captured and are appropriately used when and where necessary.
- Assessing structures/equipment to determine if it is Fit-For-Purpose.

To meet these needs requires the capabilities of a high calibre engineering team. WGIM have the staff that are experienced and trained in a broad range of materials issues and industrial sectors.

WGIM provides this level of expertise and sets the highest of standards that are based on world's best practices, servicing all industrial, processing, manufacturing, and service sectors.



### Codes and Standards

WGIM staff are experienced in applying all the relevant material, welding and construction codes, such as:

**Pipelines:** API 5L, API 1104, ANSI B31.4, ANSI B31.8, AS 2885, BS 4515, CSA Z669.2 and DnV OS-F101

**Pressure Vessels:** AS 1210, AS 3992, AS 4037, AS 4458, ASME BPV, BS 5500, and TEMA



**Process Pipe:** ANSI B31.3, AS 4041 and ASTM's

**Storage Tanks:** API 650

**Coating Systems:** AS/NZS 2312, AS/NZS 1580, AS 1247, AS 2331 and AS 3894

**Cathodic Protection:** AS 2239, AS/NZS 2832, BS 7361 and DNV RP401

**Risk Based Inspection & Risk Management:** API 581 and AS/NZS 4360