



IMMUSCO

API Inspection and Certification

API 510 PRESSURE VESSEL

Certification goal is to improve management control of process unit operation, repair, and maintenance; reduce the potential for inspection delays resulting from regulatory requirements; and provide a continued high level of safety through the use of inspectors specialized.

API 570 PIPING

is an inspection code which covers in-service inspection, rating repair, and alteration of metallic and fiberglass-reinforced plastic (FRP) piping systems and their respective pressure relieving devices.

API 653-STORAGE Tanks

Provides the minimum requirements for maintaining the integrity of welded or riveted, non-refrigerated and refrigerated, atmospheric pressure, aboveground storage tanks after they have been placed into service. It only applies to maintaining the integrity of the foundation, bottom, shell, structure, roof, attached appurtenances, and nozzles to the face of the first flange, first threaded joint, or first welding-end connection of the tank.

The API 571 Damage Mechanism

Advanced Corrosion & Materials Professional Certification Preparation Program is designed to enhance the knowledge of corrosion processes among specialized inspectors, corrosion engineers, chemical engineers and other professionals across the entire petrochemical industry.

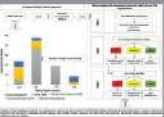
Life Assessment

Inspector assess the life of equipment based on remaining corrosion allowance.



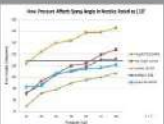
Inspection Frequency

Next inspection plan will depend upon the previous inspection data report.



Project/Construction Management Support

The successful completion of a large scale construction project requires input from highly qualified and experienced personnel. IMMUSCO experts are available for management and support from start to finishing of project as well as maintenance.



Asset Integrity Management

IMMUSCO certified inspectors perform in-service inspection for integrity management for asset to reduce the risk of failure which cost life and money.



Alteration

A physical change to restore the process parameters.



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API 577 Welding Metallurgy

Welding inspection as encountered with fabrication and repair of refinery and chemical plant equipment and piping.

API 580 RISK BASED INSPECTION

Explains the basic elements for developing, implementing and maintaining a credible risk-based inspection (RBI) program.

API 581 RBI METHODOLOGY

To provide quantitative risk-based inspection (RBI) methods that support the minimum guidelines presented by API RP 580.



Process Overview

1. Ultrasonic Thickness gaging is done to monitor the wall thickness, where there will be reduction in thickness that can easily be detected
2. Corrosion mapping is carried out to verify the material deterioration and corrosion rate keeping the corrosion allowance in record
3. Nondestructive examination is performed to ensure that the material has no flaws in it. Both base material and welding is examined
4. Finally hydrotest witnessing and QA/QC is the final step in the inspection plan and report is prepared which is kept as the record for next inspection plan



Commercial Benefits

Your Problem

If there is any leakage or reduced efficiency of the equipment

Could not identify the type of deterioration or nature of deterioration

Unable to verify the rate of deterioration that can affect the life of the equipment

Our Solution

If there is any evidence of abnormality found in the equipment, then certified API inspector will verify the actual root cause of the occurrence and recommend the suitable remedy

Various parameters i.e process parameters, nature of fluid in the equipment having different chemical composition can be the initiative of the occurrence, where API inspector will conclude the actual cause

IMMUSCO has advance NDT solutions to monitor the health of equipment at very economical cost to meet the customer's requirements according to international standards



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