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Film Radiography

Radiographic Testing (RT) is one of the most fundamental volumetric-testing methods performed in industry and radiography NDT. Film radiography, which utilises either X-ray or gamma radiation generated from a tube or from an isotope of Iridium-192, Selenium-75 or Cobalt-60, has been the most widely used application for volumetric inspections. RT NDT has the ability to: penetrate wide ranges of material with varying densities to detect internal defects in weld quality; profile in-service systems to determine if corrosion or erosion is present; evaluate castings for fabrication flaws or foreign objects; and detect damage in composites.

THE Applus+ SOLUTION

Applus+ is a world-leading authority in radiography non-destructive testing, a technique ideally suited to the detection of imperfections in materials throughout industrial operations and applications. Radiographic NDT is used to meet the challenge of identifying issues across production assets and equipment applications in the oil and gas industry for their asset integrity inspections.

Additionally, Applus+ leads the field in advanced technology with its own RandD laboratories, worldwide resources and geographical coverage. We work closely with industry leaders and subject experts.

Target customers

Radiography testing has a number of applications within the industry. Whether it be conventional film or digital radiography NDT, RT can be used to verify weld quality or to profile in-service piping in corrosion under insulation (CUI) inspections, or to determine flow-accelerated corrosion (FAC), or remaining wall thicknesses.

Radiographic testing has been employed in several industries and for a variety of inspection types, including:

- Petrochemical
- Nuclear
- Fossil
- Chemical
- Military
- Aerospace
- Foundries
- New construction
- Post-construction
- Corrosion monitoring
- LNG fabrication

Radiography testing is also a widely used volumetric-testing technique and Applus+ is a time-tested provider of radiography non-destructive testing in the industry.

Key customer benefits

Some benefits of using film radiography over other radiography NDT methods:

- Wide range of thicknesses
- Wide range of densities
- Permanent record
- Volumetric inspection
- Minimal preparation required
- Portable equipment