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Wall Thickness Measurements

Manual UT wall thickness measurements is a technique using high-frequency sound energy to conduct examinations and obtain thickness measurements. In an ultrasonic thickness measurements (UTM) inspection, a straight beam is introduced into the test object perpendicular to the surface and round-trip time is measured. Quantifiable information can be gathered for detection of localised or general wall-thickness changes.

THE Applus+ SOLUTION

Applus+ has developed proven and tested procedures for UTM inspections in accordance with applicable codes. Our NDT technicians are rigorously trained and assessed in ultrasonic inspections for both data acquisition and interpretation.

Target customers

The technique of taking manual ultrasonic thickness measurements has been employed on a variety of equipment and across a vast range of fields including:

- Upstream
- Midstream
- Downstream
- Transport pipelines
- Refining
- New construction
- Power
- Aerospace
- Nuclear
- Offshore
- Maintenance

UT wall thickness measurements are essential to maintaining the mechanical integrity of components in all industries, and Applus+ can deploy manual ultrasonic testing as part of a wider asset integrity inspection programme.

Key customer benefits

The data Applus+ can provide with our services in UTM inspection and UT wall thickness measurements provide crucial, quantifiable information that can be used to keep track of the asset's integrity.

Data from UTM inspections can be gathered quickly and easily with small, portable equipment. The technique does not require access to both sides of the sample and can penetrate through many different types of coatings and composites.