



LONG RANGE GUIDED WAVE ULTRASONICS

Echo NDE offers Long Range Guided Wave Ultrasonics (GWUT / LRUT) for the inspection of above and below ground piping, utilizing the Teletest Focus® system. Guided Wave is a low frequency ultrasonic technique developed as a rapid screening tool for in-service degradation, covering 100% of the volume of the inspected range. This technique allows for the inspection of tens of meters of pipe from a single remote location. Areas of concern identified during GWUT are highlighted for further local examination utilizing complimentary NDT techniques.

ADVANTAGES:

- Generates torsional, longitudinal and flexural waves
- Pipe sizes from 2" to 48" can be tested
- Clamped and inflatable for minimal set up time
- Most testing can be performed in service
- Utilizes Focus® software to enhance anomaly detection and classification
- FOCUS® makes it possible to focus ultrasound at any location along the length and circumference of the pipe, improving detection capabilities. This allows for depth and circumferential extent of flaws to be determined using the equipment in its original screening mode.
- Enhanced Focusing Capability (EFC) allows for the determination of defect orientation. An unrolled pipe display or contour map showing orientation and distance of pipe features allows for improved defect sizing and classification.

APPLICATIONS:

Guided Wave Ultrasonics allows for the testing of piping in limited and non-accessible locations with substantial cost effective results. Access to the structure under test is only required at the test position (remote inspection) which makes guided wave screening technology an ideal solution for inspecting:

- Inaccessible areas such as cased road crossings
- Insulated piping systems (CUI)
- Boiler/Heater tube inspections
- Buried pipelines between excavations
- Pipeline risers
- Overhead piping on towers
- Piping through dikes and concrete walls
- Bitumen Lines
- Sphere Legs

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