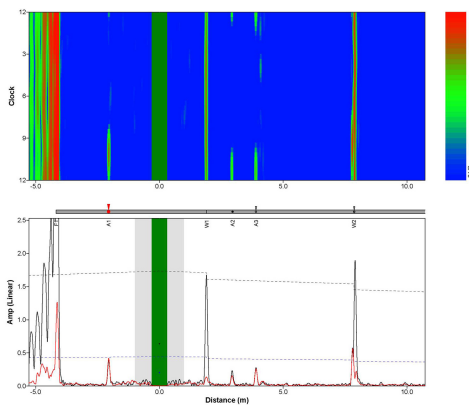


Guided Wave Testing

Guided-wave testing has been identified within the industry as an effective pipe-screening technology capable of assessing damaged areas over extended lengths. With the minimal footprint of the technology sensors and bands, areas in which screening was previously hindered by insulation, poor access and coatings are now accessible, reducing the efforts clients need to go to in terms of mobilisation. Recent technological improvements mean that guided-wave testing can be deployed in an array of environments and product temperatures. Results obtained may be analysed on site, enabling technicians to focus their efforts on areas of concern and help reduce the overall costs of system assessment.



THE Applus+ SOLUTION

Applus+ has a long history of working with guided-wave-testing technology. Through extensive training and procedure development, Applus+ has created a world-class programme.

Guided-wave services may be conducted on a stand-alone basis or be coupled with a sound mechanical-integrity programme, thereby benefitting clients looking to analyse their systems in an efficient manner, focusing efforts on identifying and resolving problems.

Target customers

Guided-wave testing is applicable to a number of sectors, including:

- Oil and gas (upstream, midstream, downstream)

- Power
- Nuclear
- Aerospace
- Food and beverage
- On/offshore

Key customer benefits

Benefits of guided-wave testing include:

- Available for pipe diameters of 5cm to 142cm (2" to 52")
- Maximum temperature of around 500°F
- Extremely long-range inspection
- Great screening/monitoring tool (recognised and accepted worldwide)
- Very cost-effective method of detecting CUI
- Easy to deploy
- Very versatile – desert to subsea
- Ability to see 3% cross-sectional change (dependent on signal-to-noise ratio)
- High reproducibility
- Areas for quantifiable subsequent inspections identified very quickly and accurately
- Indications of length greater than 2.5cm (1") easily identified
- Areas of concern noted with length for detrimental calculations
- Accurate c-scan available with nominal resolution
- Real-time processing and evaluation
- Results can be tied to internal or external GPS/GIS locations automatically
- PHMSA, DOT and CCR qualified