

Introduction

The American Welding Society (AWS) codes are used in North America to inspect various types of welds in conventional ultrasonic testing (UT). The type of welded material, the welding process and the industry directly influence the inspection criteria. The Sonatest WAVE instrument with its Interactive Scan- Plan can significantly optimise the visualisation of the weld joints since the A-Scan signal is displayed along the sound path, allowing a comprehensive identification of potential defect locations. WAVE Companion, a PC software managing tool, allows the creation of dedicated applications (Wave App) that contain relevant parameters in compliance to AWS guidelines and other inspection requirements.



Figure 1 – AWS Inspection with the WAVE

Industries

- Chemical & Petrochemical Sector
- Oil & Gas Sector
- Nuclear Energy Sector
- Wind Power Renewables Sector
- Construction and Infrastructure
- NDT Service Providers

Application

- Weld Inspection
- Asset integrity
- Flaw Detection and Evaluation

Typical Parts

- T-Joints in deck bridges
- Nozzle welds on pressure vessels
- Groove welds
- Fillet welds

Inspection Techniques



- Manual UT

Features and Benefits

- Probes and wedges designed in compliance to the AWS standards
- Simple illustration of Weld and T-joint parameters
- Mitigating errors by reducing the user interactions
- Optimal visualisation of the sound path in the weld
- Improved inspection confidence with the Interactive Scan-Plan for defect evaluation and characterisation

For further information or support, please contact the Sonatest Applications Team: applications@sonatest.com

Recommended Tool Package

Category	Part #	Description
Acquisition Unit	WAVE Digital Flaw Detector	
Probe	SSG and PSS series transducers and wedges	

Get in touch with your local Sonatest expert, available in more than 50 countries over 5 continents!



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