



VERSA
INTEGRITY GROUP

Nondestructive Examination Services

AUT CORROSION MAPPING



Being a leader and pioneer in the application of Automated Ultrasonics (AUT), Versa Integrity Group can meet all your needs when it comes to Automated Ultrasonics. When used in combination with our Rope Access division, we can dramatically reduce the cost of infrastructure to access your hard to reach areas.

What is automated ultrasonic testing (AUT)?

AUT is any form of ultrasonics (phased array, conventional shear wave, corrosion mapping, etc.) used to determine wall loss, crack detection, laminations, and any other discontinuity that may exist in base materials and welds. The data acquired is recorded or encoded for service life trending and evaluation. We use many different computer and software packages to accomplish this goal.

Corrosion Mapping

This technique is used to map the interior surface of pressure vessels, piping, heat exchangers, etc. It can be used for remaining life determination or monitoring of existing corrosion problem areas to maximize the amount of time that a piece of equipment can be used before shutdown. AUT has proved invaluable in shutdown planning, as you know what you need to replace before the shutdown. Additionally, we are capable of performing in-service exams at temperatures ranging from -10°F to 700°F.

Encoded Weld Quality/Monitoring

This technique is used to inspect welds that are new fabrication or existing welds for defect monitoring (e.g. critical defect sizing, crack monitoring, etc.). If required, we can fully meet the requirements of ASME Code Case 2235-9, which allows for ultrasonics to be performed in lieu of radiography when dealing with certain sections of ASME fabrication.

In-Service Defect Detection and Monitoring

- Stress corrosion cracking
- Hydrogen-induced cracking (HIC)
- Creep damage and monitoring
- Fatigue indications
- Corrosion (All types ID and OD orientated)
- High temperature hydrogen attack (HTHA)

THE UNIFIED SOLUTION.

Versa Integrity Group is expanding operations to cover the areas that are close to our clients. If you need solutions to your complex NDE, inspection, and reliability challenges, we have an office that can quickly and conveniently meet your needs.