



Acoustic Emission Testing

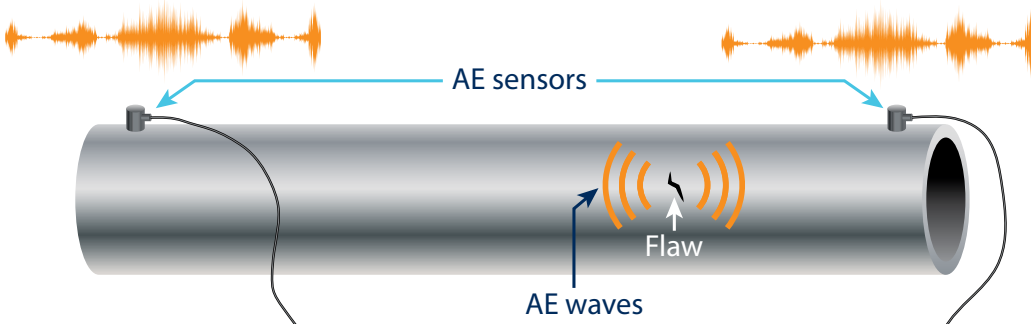
RELIABLE STRUCTURAL DEFECT DETECTION

Acoustic Emission (AE) testing is a proven preferred method to detect the presence of defects quickly and reliably. AE testing uses sensors to identify high frequency signals resulting from structural defects that are performing under stress. Acoustic emission testing can be used as a non-destructive method during structural proof tests and plant operations to locate minor damage prior to failure.

After the testing is completed, the results are analyzed by our technicians through data interpretation. Our experts measure the rate of each emission to determine the location of the defect. Once the defect is located, we follow the procedure determined during our prequalification meeting which may include additional inspection methods to help start the process of remedying the defect.

Acuren's acoustic emission testing is part of our advanced non-destructive suite of services unlike traditional NDT, AE can provide information on the severity and origin of defects in a material.

HOW ACOUSTIC EMISSION TESTING WORKS



COMMON DEFECTS DETECTED

- Cracks
- Corrosion/pitting
- Hydrogen induced defects
- Leaks
- Stress Corrosion Cracking (SCC)

ADVANTAGES

- Early detection
- 100% global assessment of large structures
- AE detects damages in structures that are difficult to detect by other methods
- The structures are assessed and studied during real operational conditions
- Reduced cost - minimizes or eliminates need for downtime
- Noninvasive

AE TESTING METHOD APPLICATIONS

- Metal/FRP pressure vessels, piping and tanks
- Infrastructure such as highway bridges
- Reactor/cool-down piping
- Pre-service/post repair hydro-testing
- Aerial man/material lifts
- Seamless tube bundles/trailers
- Structural Health Monitoring (SHM)

WHY ACUREN?

- Single turnkey vendor with 90+ locations to execute comprehensive inspection, engineering, and rope access enabled solutions
- Subject matter experts with over 20 years of cross industry global experience in AE that encompasses most applications

CONTACT OUR AE EXPERTS TODAY

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BEYOND INSPECTION