

Nondestructive Evaluation and Inspection Systems

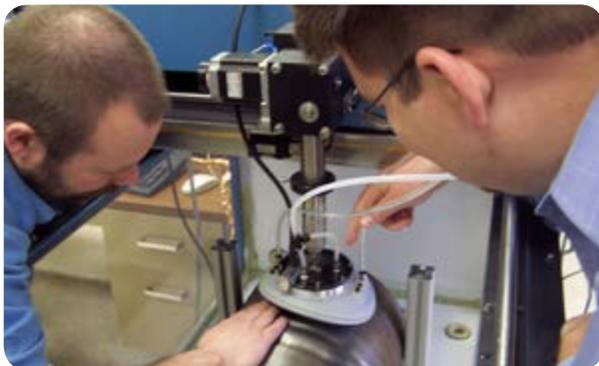
Nondestructive evaluation (NDE) serves a vital role in the industry from receipt inspection, to process control in manufacturing, to final product inspection. As product designs and materials progress, advanced NDE techniques ensure the ability of complex systems to meet customer demands.

At BWXT Nuclear Energy, Inc. (BWXT), NDE and inspection systems specialists produce automated, fully integrated, production qualified systems to satisfy the most stringent requirements. We specialize in solving application problems that benefit from the use of:

- BWXT's surface correcting matrix focus ultrasonic testing (UT) for rough and wavy surfaces
- Phased array UT
- Electromagnetic acoustic transducers (EMATs)
- Phased array EMATs
- Laser metrology

Our approach to examining and solving your complex NDE tasks includes an appropriate selection and combination of:

- Surface correcting matrix focus UT
- Applying current NDE technologies and procedures
- Developing, refining and customizing emerging technologies
- Researching and developing innovative sensors and techniques
- Automated system design



Focused array surface adapting technology UT inspection of rough and wavy weld surfaces



High temperature EMAT

In addition, BWXT can retrofit and enhance your current inspection methods and practices by teaming with your NDE staff. We offer the following engineering and technical disciplines:

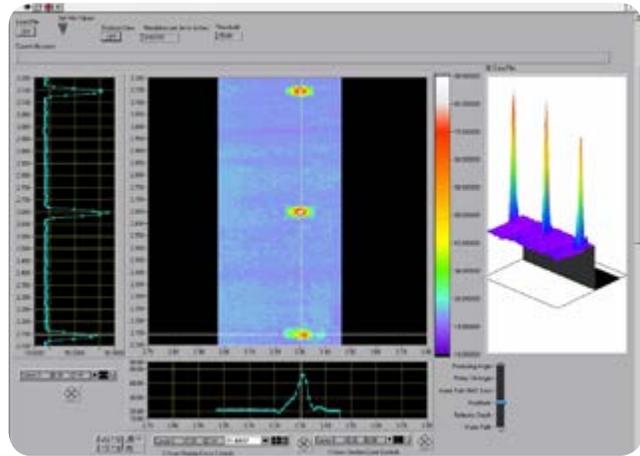
- Ultrasonic techniques
- Mechanical and design engineering
- Electrical and electronics engineering
- Hardware and software development
- Welding and materials
- Electromagnetic techniques
- Visual and optical inspection
- Radiography

Our team offers unique experience in:

- NDE design and development
 - Ultrasonic applications for complex surfaces
 - EMAT technology
 - Exotic and high alloy materials characterization
 - High precision NDE
 - High temperature NDE
 - Near real-time process NDE
 - Modeling

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- Systems integration
 - Automation and systems integration
 - Customized software development
 - Design of turnkey inspection systems
 - High speed automated scanning systems
 - Phased array ultrasonic system integration
- Process and procedures
 - Complex conventional ultrasonic techniques
 - Procedure review and development for welding, joining and NDE
 - Code and regulatory compliance
 - Fixture and component design



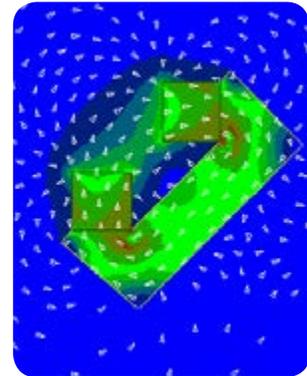
Customized NDE software processing phased array UT data

We provide innovative solutions for a wide range of industries, including:

- Government labs and facilities
(BWXT offers a secured facility with DOE L and Q level personnel)
- Power generation (fossil and nuclear)
- General manufacturing
- Heavy equipment
- Petrochemical
- Transportation
- Steelmaking
- Shipbuilding
- Aerospace
- Offshore
- Pipeline
- Energy



Modeling NDE systems for critical applications



Modeling simulation of EMAT for critical application

From traditional techniques to the latest in NDE technology, BWXT specialists create solutions to inspection and prognostic problems. NDE is an integral part of today's advanced designs. Sophisticated component designs plan for NDE from the beginning, and include NDE throughout the life cycle of the product.

NUCLEAR ENERGY

GOVERNMENT SERVICES

ADVANCED TECHNOLOGIES

Headquartered in Lynchburg, Va., BWX Technologies, Inc. (BWXT) is a leading supplier of nuclear components and fuel to the U.S. government; provides technical, management and site services to support governments in the operation of complex facilities and environmental remediation activities; and supplies precision manufactured components and services for the commercial nuclear power industry. BWXT has more than 5100 employees and significant operations in Lynchburg, Va.; Erwin, Tenn.; Mount Vernon, Ind.; Euclid, Ohio; Barberton, Ohio; and Cambridge, Ontario, as well as more than a dozen U.S. Department of Energy sites around the country. Follow us on Twitter @BWXTech and learn more at www.bwxt.com.

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