

Non-Destructive Examination and Inspection

Highly qualified and experienced inspectors

Since 1959, our non-destructive examination and inspection personnel have ensured that manufacturing and construction work is performed to the builder's specified standards. AMEC uses state-of-the-art equipment and highly trained and certified professionals to inspect everything from metal welds and paint thickness to spray-applied fireproofing and polyethylene pond liners. Additionally AMEC can test and certify your welders, either in our test shop or at job sites. AMEC has tested more than 50,000 welders.

AMEC's inspection teams are fully mobilized at all times and available to perform crucial non-destructive examination (NDE) code inspections on demand. Each team is structured to have the broadest mix of inspector qualifications so it can handle the widest range of inspection duties.

Our inspectors strive for highly accurate test results and realistic code interpretations. AMEC's exacting methodology is your assurance of quality construction, fabrication and maintenance. Additionally, our clear and precise report documentation allows you to better comprehend and interpret test results. Later, these traceable and well-referenced reports will stand up to scrutiny, demonstrating that your work stands among the finest of which industry is capable.

Not only do AMEC inspectors possess superior qualifications, skills and experience, but they use the best techniques and state-of-the-art equipment for the job at hand. The types of inspections AMEC performs include:

- **Radiography.** This technique provides a visual record of internal flaws, porosity, lack of fusion, and non-metallic inclusions. It typically is used to inspect welding on pipelines, storage tanks and high pressure piping in boilers, or to determine the location of electric wires and stress cables in concrete.
- **Ultrasonic Testing.** Highly portable test equipment is used to reveal imperfections such as laminations, cracks and intergranular stress corrosion and lack of full penetration welds.
- **Magnetic Particle/Liquid Penetrant Testing.** These methods are used to locate surface and near-surface flaws, including cracks and porosity.
- **Visual Inspection.** This is the most common inspection method used to monitor work quality and specification compliance at construction sites. AMEC has a staff of Certified Welding Inspectors meeting CSAW47.1, AWS and ICBO codes.



■ **Ground-Penetrating Radar.**

This technology utilizes high-frequency radio waves to detect objects buried underground or embedded in concrete or asphalt.



AMEC offers the following additional services in the inspection arena:

- Adhesion Testing
- Bolt Torque Testing
- Boroscopic Inspection
- Electrical Inspection
- Fire Insulation Thickness & Density
- Helium Leak Testing
- Holiday Detection
- Mechanical Inspection
- Paint Thickness Testing
- Polyethylene Pipe & Liner Inspection
- Quality Assurance/Quality Control Programs
- Source Inspection
- Surface Preparation Inspection
- Welder Certifications
- Welding Coupons
- Welding Procedure Qualifications
- Ultrasonic Leak Testing
- Vacuum Box Leak Testing

AMEC's non-destructive examination and inspection personnel have completed thousands of assignments on projects in North America and

abroad. Our inspectors have experience with the following types of projects:

- Airport Fuel Distribution Systems
- Bridges
- Chemical Plants
- Combined Cycle Power Plants
- Commercial Complexes
- Computer Chip Plants
- Culverts, Tunnels and Dams
- Drag-line Booms
- Fossil Fuel Power Plants
- High-rise Structures
- Liquid Natural Gas Plants
- Mining Projects
- Nuclear Power Plants
- Nuclear Submarine Training Centers
- Oil and Natural Gas Facilities
- Pipelines and Gathering Systems
- Pressure Vessels
- Pumping Stations
- Refineries
- Ship Hulls
- Ski Resort Industries
- Smelters
- Specialty Projects
- Steel Prefabrication Yards
- Stress Cable Location in Floors
- Structural Steel
- Tank Farms
- Turbines



For a list of office locations, company contacts and other services refer to:
www.amec.com