

Ultrasonic Failed Fuel Detection Systems

Proven, Reliable and Efficient Fuel Inspection Solutions

ECHO-330® and Ultratest™, AREVA fully automated ultrasonic fuel inspection systems, combine advanced multiple-probe designs with computerized control and data evaluation to deliver proven performance and reliability for detecting failed fuel rods. These unique systems inspect all fuel rods with minimal passes through the fuel assembly. Plus, they immediately identify any failures and display their location at the control console – before the assembly leaves the inspection station. This eliminates the need for extra handling of the fuel assembly if rescans are required. ECHO-330 and Ultratest have proven results on a variety of fuel designs, including PWR 14x14, 15x15, 16x16, and 17x17 configurations, in addition to BWR 8x8, 9x9, 10x10, and 11x11 configurations.

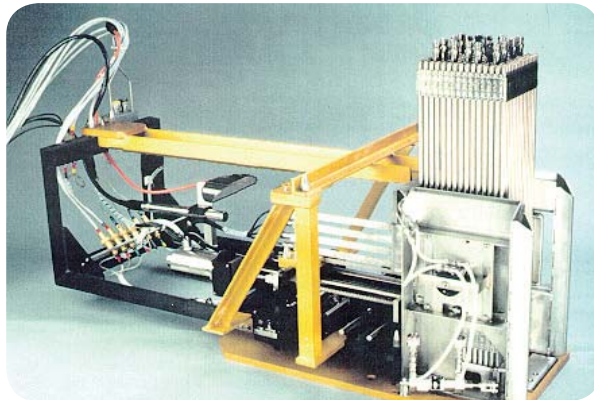
Progressive Technology; Dependable Results

Field-proven ultrasonic probes are at the heart of each system. Each probe features transducers that ultrasonically transmit and receive, mounted on a single flexible blade. The transmitter generates an ultrasonic pulse, which produces a wave that travels around the fuel rod to the receiver. The amount of energy recovered by an advanced receiver determines the integrity of the fuel rod.

Following comprehensive inspection, ECHO-330 or Ultratest withdraws the probes and clearly displays the integrity status of the fuel rods. This enables the operator to advise the fuel handler to remove the fuel assembly from the station, or to locate the assembly for a rescan at a different position. The computer then prints a hard copy of the inspection result.

Responsive Service and Experience You Can Trust

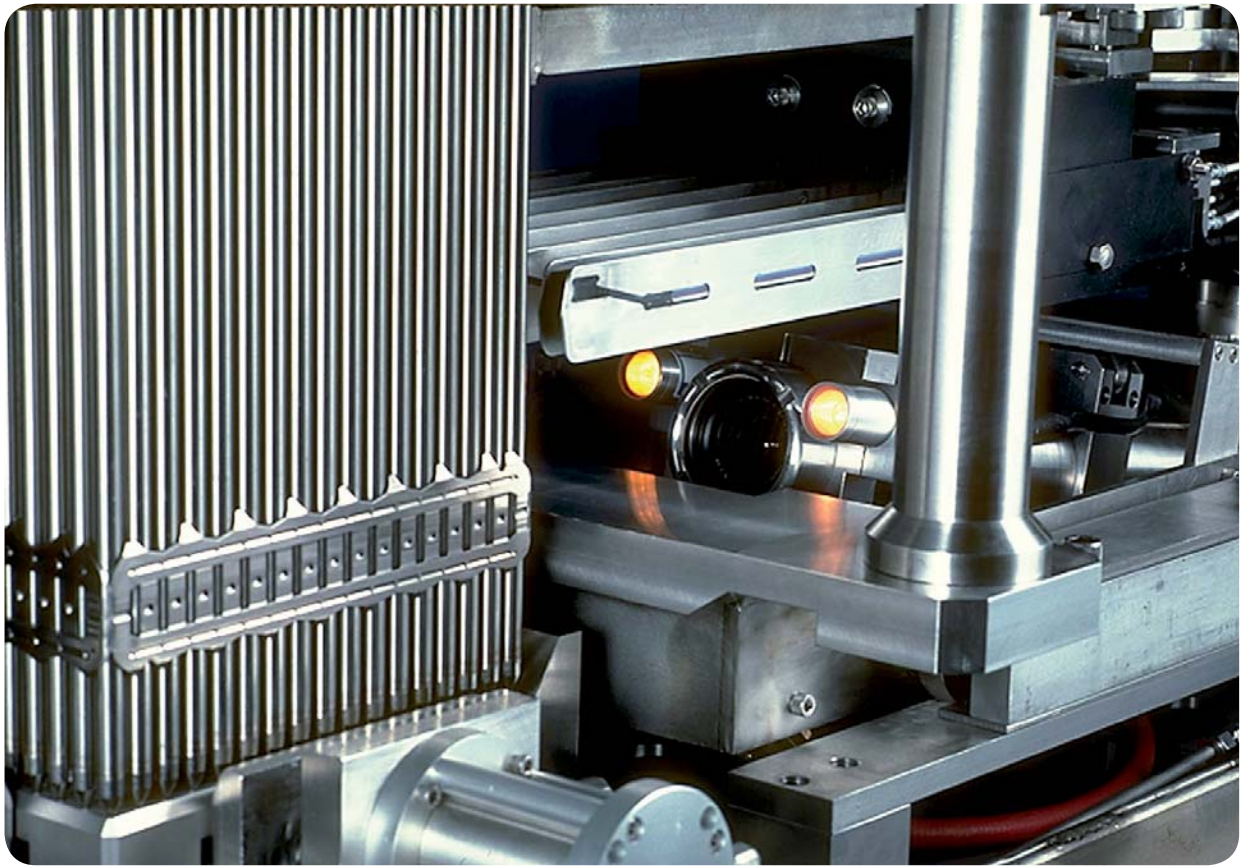
Speed and precision are critical to a successful outage. The combined experience and dedication of AREVA fully qualified ECHO-330 and Ultratest teams ensure fast and accurate test results. Plus, with experience in both the United States and Europe, AREVA is an innovative world leader in ultrasonic fuel inspection.



Ultratest Failed Fuel Detection System

Features and Benefits

- Full automation and computerized operation simplify use
- Easy-to-read data format prevents mistakes
- Poolside or remote operation reduces dose
- Exceptional accuracy ensures reliability
- Extensive AREVA experience provides peace of mind



ECHO-330 Failed Fuel Detection System



ECHO-330 Control Consoles

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