

N141. UT Imaging System

GE Nuclear Energy's Smart 2000 UT imaging system designed to perform piping and specialized in-core inspection, has been used in several U.S. and international boiling water reactors (BWR) nuclear power plants since its introduction earlier this year. Inspection applications include class 1 and 2 piping, in-core monitor housing, and access hole cover examinations. Other applications include Inconel 182 weldments, weld overlays, control rod drive stub tubes, and core spray T-boxes. The new system features high-speed, multiple-channel radio frequency digitalization for reduced examination times and radiation exposures. The portable system relies on field-proven scanner configurations and can support up to eight channels of real-time-display data collection. The system has been qualified at the Electric Power Research Institute Nondestructive Evaluation Center for intergranular stress corrosion cracking detection and planar flaw sizing.

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