GE Hitachi
Nuclear Energy

Bridge-Free Tooling: Reactor Pressure Vessel Inside Diameter Inspection Tooling

fact sheet

Nonintrusive, enhanced inspections with a tool from the BWR industry inspections leader

Detection and monitoring of defects in the Reactor Pressure Vessel (RPV) of nuclear power plants has never been easier. GEH's new Reactor Pressure Vessel Inside Diameter (RPV-ID) Inspection Tooling provides a nonintrusive means of inspecting RPV welds and Heat-Affected Zones (HAZ). The tooling is designed for use in Boiling Water Reactor (BWR) plants with restricted inspection access from the outside diameter (OD) surface, high dose rates, or short drywell schedule windows.

This nonintrusive delivery platform (via Remotely Operated Vehicle) is another of GEH's Bridge-Free Tooling offerings. Single-pass scanning capability results in quick scope completion, with enhanced coverage due to the compact tool design and configuration. Inspection requirements are easily met with use of RPV-ID inspection tooling.

This tool helps plants complete RPV inspections without impacting site refueling outage schedules. Critical path time is not impacted by the RPV-ID inspection tooling operation or deployment.

GEH, the industry leader with more successful BWR RPV inspections than any vendor in the world, has qualified the RPV-ID inspection tooling. The tool may be supplemented by a complete service package, including engineering assessments, technical direction, and a host of other services important to our nuclear plant customers.

Benefits

- Bridge-free tooling that does not require the scheduled use of the refuel floor platform or overhead crane
- Helps avoid impact to site refueling outage schedule

RPV-ID inspection tooling allows for a single-pass scan of RPV welds and Heat-Affected Zones. One of GEH's bridge-free tool offerings, RPV-ID allows inspections without impacting site refueling outage schedules.

- Quick and efficient scope completion
- Maximized coverage of inspection areas
- Enables safe operation for operator and plant equipment
- Shortened duration of onsite personnel

Features

- Nonintrusive delivery platform via Remotely Operated Vehicle (ROV)
- Single-pass scanning
- Qualified UT acquisition and analysis process ASME Appendix VIII (PDI)
- Compact size and configuration to mitigate accessibility restrictions
- Alternative to shorten drywell access windows for OD examinations due to shorter outage duration and movement of irradiated components
- Alternative for high dose received during OD examinations

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GEA-14498A (10/07)