

Telescoping Shroud Scanner (TS²)

Versatile Non-intrusive Inspections with Maximum Coverage

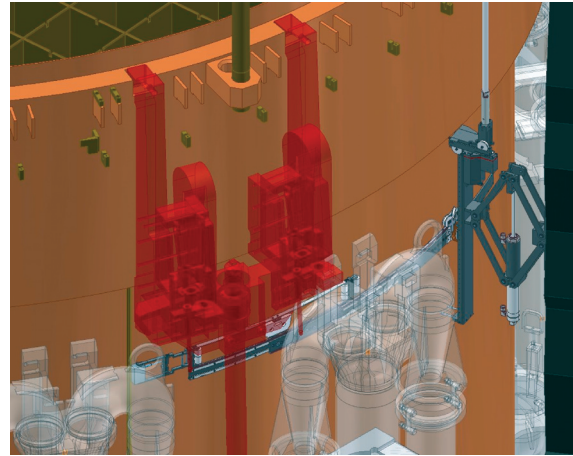
GE's Telescoping Shroud Scanner (TS²) is an extremely versatile tool for non-intrusive inspections of Boiling Water Reactors (BWRs). The remotely operated scanner performs ultrasonic inspections of both the reactor's shroud circumferential and vertical welds from the outside diameter (OD) surface. When used in conjunction with GE's 360-degree platform, the TS² can perform all inspections completely independent of bridge or crane support. The TS² can inspect welds on the shroud upper, middle, and lower barrels with a single configuration. In addition, the TS² has a unique ability to inspect welds with extremely limited OD access caused by shroud tie-rod repairs or other plant internal modifications.

TS² is delivered into the vessel annulus by a handling pole. Once positioned in the desired location, the tool is locked into place between the shroud and reactor pressure vessel (RPV). With the position set, the telescoping curved arm easily extends past obstacles such as jet pumps to reach remote vertical welds. TS² can also provide coverage of previously inaccessible circumferential welds.

Without impacting critical path fuel movements, GE's TS² provides vertical weld inspection coverage comparable to shroud tooling delivered from the inside diameter (ID).

Inspection Options from the Industry Leader

With more BWR core shroud-inspections experience than any other vendor in the world, GE addresses individual plant needs with multiple shroud scanner approaches. The Telescoping Shroud Scanner is the latest addition to GE's shroud inspection offerings. Through extensive engineering assessments of in-vessel configuration, GE will help to determine the best tooling for maximum shroud coverage in each plant.



Features

- Ability to inspect highly constrained welds
- Up to 50° of circumferential weld inspection coverage from a single installation location
- Based on proven tooling design and technologies
- No impact on critical path fuel movements
- Ability to perform inspections independent of bridge or crane support when used with GE's 360-degree platform
- Demonstrated in accordance with Boiling Water Reactor Vessel and Internals Project (BWRVIP) Guidelines

Benefits

- Non-intrusive: no fuel cell evacuations, hoist or overhead crane use required
- Potential savings of critical path time due to ability to perform inspection at the same time as other critical path activities
- Maximum coverage of inspected areas



For more information, contact your GE Energy sales representative mark.everett@ge.com or visit us at www.ge-energy.com/nuclear