

## BWR Jet Pump Diffuser Inspection

### Bridge-Delivered Expanding and Rotating ID Inspection Tool

Innovative tooling for two-sided volumetric examination coverage of your BWR diffuser and mixer welds.

#### Challenge

Utilities are required to perform periodic examinations of BWR jet pump mixer/diffuser welds.

#### Solution

Framatome delivers innovative tooling for two-sided volumetric examination coverage of your BWR diffuser and mixer welds.

#### Completely Off Critical Path

- Industry best-practice approach allows maximum coverage with low dose and typical inspection time of less than three hours per jet pump.
- Simple design increases detection and sizing capabilities.
- Proven approach performed successfully and on schedule.

#### Reliability and Performance

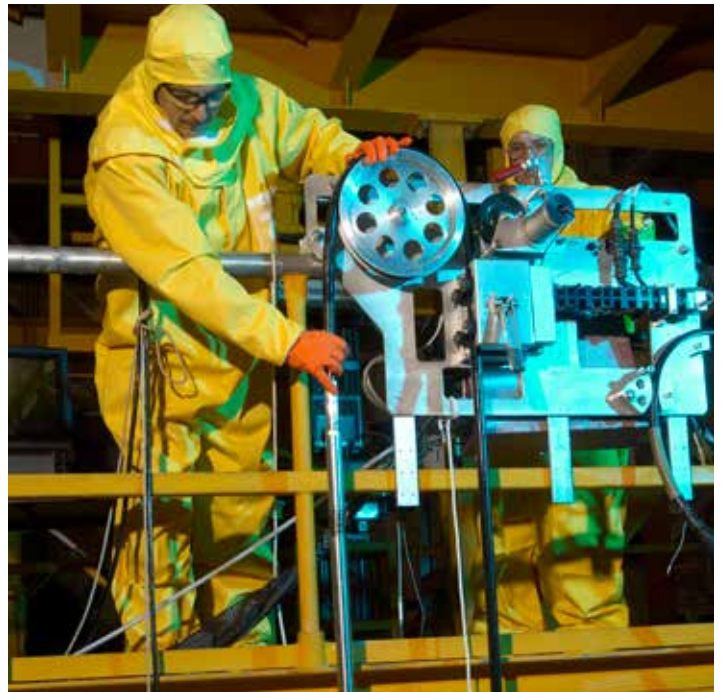
- Using ultrasonic methods, Framatome examines jet pump mixer/diffuser welds from the inside surface of the assemblies, enabling comprehensive coverage.
- The collapsible probe is delivered from the bridge into the jet pump mixer/diffuser pipe, then the probe expands to engage UT transducers with the diffuser wall. The complete weld volume is then scanned by rotating and moving the probe axially through the diffuser.
- The acquired data is then analyzed to confirm data quality and the presence or absence of indications.



#### Customer benefits

- Seen as INPO best practice
- Decreases inspection duration — typically less than three hours per jet pump
- Inspect both diffuser and mixer welds — typically five to eight welds
- Eliminates limitations and uncertainties of VT — entire volume examined
- Increases detection and sizing capabilities
- Provides 360° exam coverage

**Your performance**  
is **our** everyday **commitment**



## Simple, Proven Design for Reliable Operation

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