Control Rod Guide Tube Inspection
CRGT Tool

Control Rod Guide Tube (CRGT) inspection tool examines your guide card to ensure safe plant operation during extended plant life.

Complies with industry MRP-227/228 requirements
• Performs a VT-3 exam
• Accesses all CRGT Guide Card elevations
• Measures wear on any worn slot locations observed

High-resolution camera verifies wear and predicts remaining life
The CRGT Tool delivers a high-resolution color camera through the central opening to each guide card elevation. The process includes:
• Confirmation of the camera image against a reference standard
• Installation of the tool on the CRGT, ensuring known orientation
• Insertion to the first guide card elevation
• A 360° low-resolution, VT-3 inspection camera that scans the entire card returning to the 0° position
• Ability to switch to a high-resolution image that captures the 0° slot
• Index and repeat high-resolution capture for all slots
• All images recorded using AREVA Accurate IVVI software

Features and Benefits
• Provides a wide angle for VT-3 inspection, delivering high resolution capability to measure guide card slot geometry for a fast, complete inspection
• Camera resolution of .0025” per pixel (.06mm/pxl)
  – more than adequate for identifying wear
Simple and reliable tooling allows rapid and direct measurement of control rod guides.