

Bridge-Free Tooling: Jet Pump Assembly Inspection

fact sheet

Nonintrusive Inspections to Minimize Critical Path Time

GEH offers several Bridge-Free Tooling options that minimize critical path time, including the Jet Pump Assembly Inspection. This underwater, remote-operated vehicle (ROV) probe delivery system—a less intrusive inspection of jet pumps in nuclear power plants—can potentially save up to 20 hours of critical path time. The system minimizes crane support and eliminates the need for a bridge.

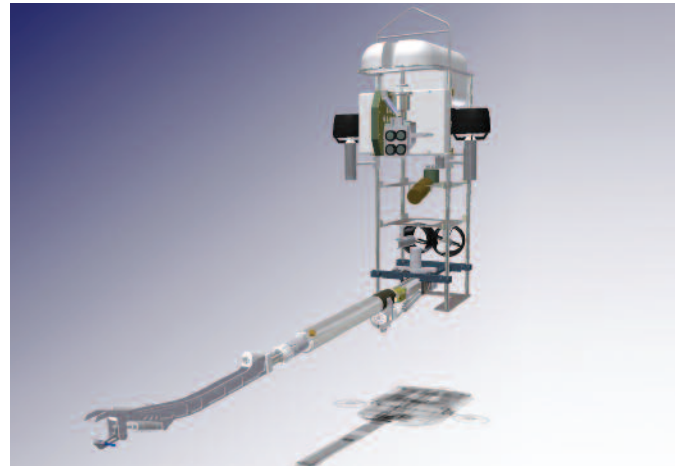
GEH's unique jet pump inspection tool is a small-diameter probe, inserted through the nozzle opening in the inlet mixer nozzle. The probe is delivered into the jet pump with an integrated funnel. Once inside, the probe extends rotating sensors to conduct ultrasonic and eddy current Non-Destructive Examinations (NDE) inspection of the jet pump adapter and diffuser welds.

The remotely operated submersible that inserts the probe also provides interior and exterior camera views of the jet pump, guiding the position and closely monitoring the NDE inspection process.

By providing reduced dependence from the refuel bridge and from Reactor Service Technician (RST) support, GEH's jet pump inspection system helps the industry's growing need to minimize critical path time and overall outage costs.

Spec Chart

Tool Size	59 depth x 35 width x 72 height
Weight	425 lbs



Benefits

- Remote, real-time capability allows for non-critical path applications
- Reduced dependence on bridge and RST support
- Improved performance through rapid deployment and scanning
- Ability to perform inspection at the same time as other critical path activities such as fuel moves, potentially saving up to 20 hours of critical path time
- Proven and patented NDE delivery system and techniques

Features

- Unique GEH design based on proven jet pump and submersible ROV deployed examination systems
- Innovative submersible design for technique deployment
- Interior/exterior camera views of jet pump allow optimized remote control inspection
- NDE Technique Compliant and Demonstrated to BWRVIP 41 Inspection guidelines



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