

## Case study

# Spent Fuel Dry Cask Inspection

## Challenge

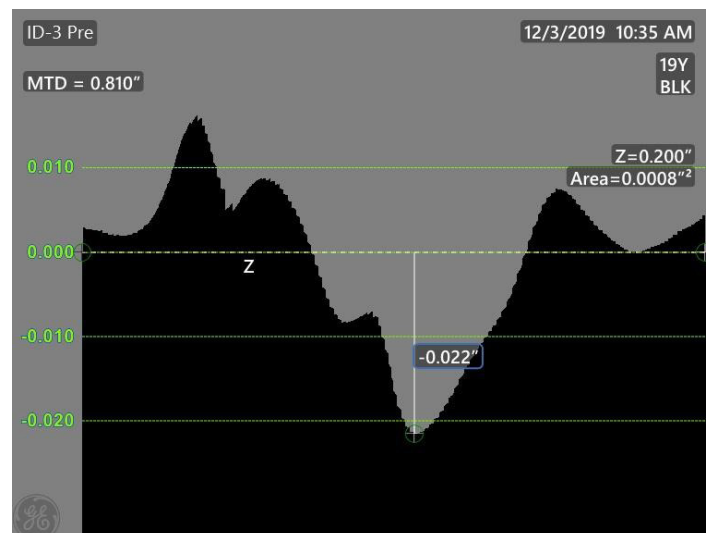
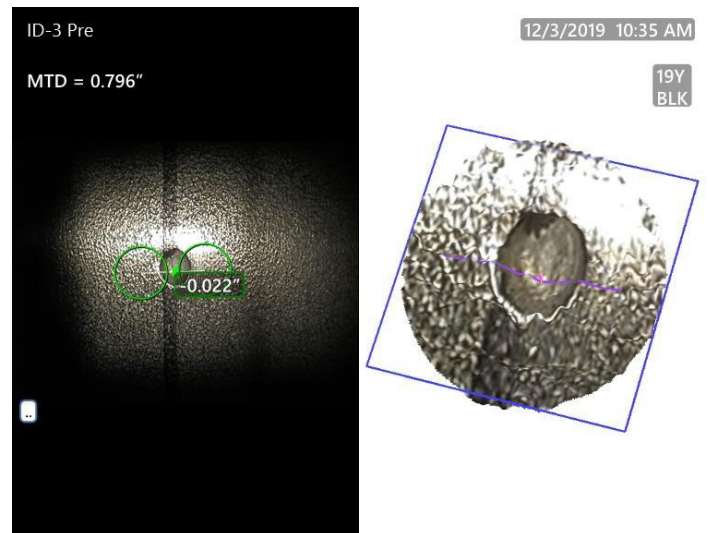
Nuclear power operators work closely with NRC regulatory body and EPRI which is an independent research company that assists the nuclear industry with any issues they may have. This ensures thorough inspections are completed on spent fuel dry casks as part of the 5, 10 and 20 year license renewal process. This applies to both vertical and horizontal canisters, and requires traceable reports with detailed documentation of any findings.

## Baker Hughes as part of the solution

With the latest technology and skilled inspectors, Baker Hughes, formerly a GE Company has become the leading provider of spent fuel dry cask inspections. Range of view is near unlimited in vertical and horizontal canisters, providing clear images and video of all required areas. Specialty probes are utilized to allow prolonged use without brownout effects and Real3D™ measurement provides accurate quantification of indications such as cracks and corrosion pitting depth.

## Outcomes

- Thorough report fulfilling all regulatory requirements
- Traceable quantification of indications
- Working relationship with other vendors (RTT) to compliment their inspection devices and methods
- To date we have inspected over 40 canisters, from several different manufactures. Inspections have been done directly for the utilities and the manufactures.



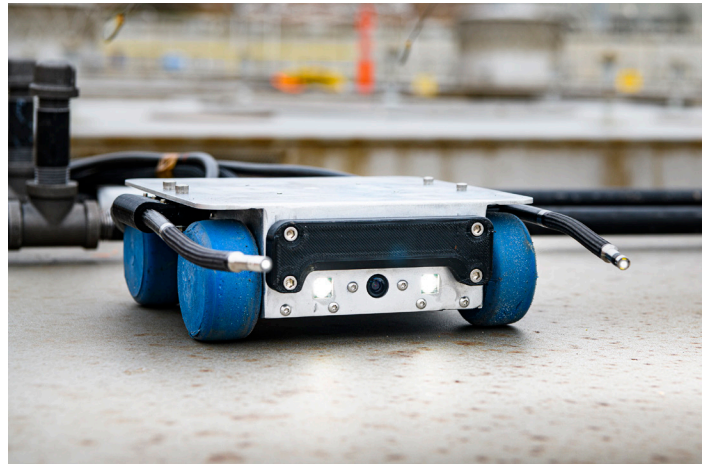
Characterization



Mitigation



Mentor IQ



Robot with probes

### Technology developments

Supported industry testing on repair mitigation under direction from the utility, manufactures and EPRI. Also, working on Ultrasonic modality to be applied to the inspection platform (Baker Hughes Ultrasonic).

List of customers and locations available upon request



### Contact Us:

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