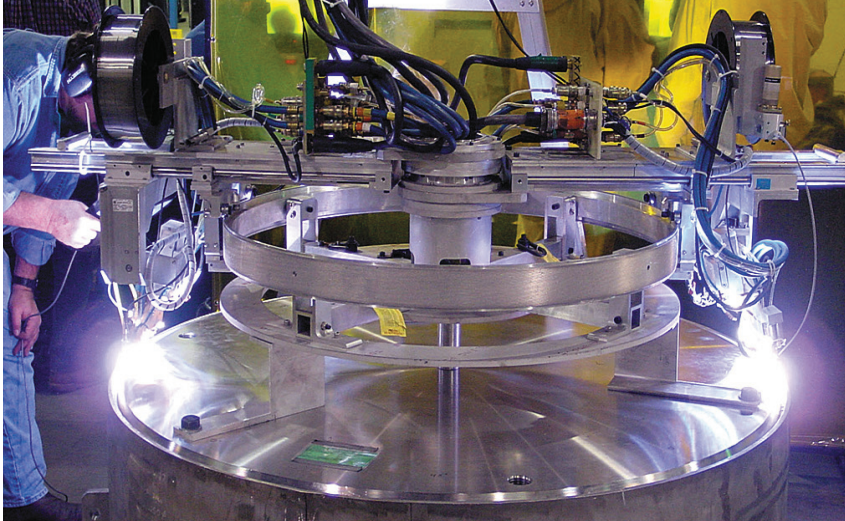


# Spent Nuclear Fuel Canister Closure Welding



## Leaders in canister closure technology

AZZ | WSI is a North American leader in seal welding of spent fuel canisters. Our canister sealing technology utilizes video-remote GTAW welding methods, thereby improving ALARA results, reducing schedule risk, increasing repeatable weld quality and minimizing refuel floor footprint.

AZZ | WSI has a proven solution to safely seal weld the NRC licensed nuclear fuel storage canisters. This mechanized GTAW process utilizes a “dual-head” machine welding system with independent power supplies and controllers which offer superior production rates and redundant back-up systems. The WSI canister welding system includes remote port cover welding and can operate at distances greater than 150’ from the canister. Customer benefits include increased safety margins, decreased dose, reduced welding times and reduction in crew size for shorter schedule durations and lower costs.

Flexible staffing models are available to support schedule critical campaigns at operating plants and longer term staffing for end of plant life decommissioning projects. With our 10CF50 Appendix B QA Program, we can provide NDE services including Helium Leak Testing.

WSI has performed canister welding at several nuclear plants including Columbia, Zion, Hatch, Dresden, Idaho National Laboratories, Oyster Creek, Yankee Rowe, Maine Yankee, Palo Verde, Sequoyah, Browns Ferry, Battelle National Laboratories, Connecticut Yankee, Arkansas Nuclear One, River Bend and Grand Gulf Station.

## Canister Welding Highlights:

- More than 350 production canisters
- 30 informal customer-witnessed mock-ups
- Over 15 NRC mock-up/demos
- NDE to date have yielded zero rejectable defects on canister-related welds
- Over 32,000 linear feet and 6,200 lbs of weld filler material deposited with zero rejectable defects

## Canister Welding Benefits:

- More than 350 production canisters
- Remote GTAW system
- Operate 150’ from canister (ALARA)
- “Dual head” welding system with independent power supply and controller
- Remote port cover welding system
- Multiple canister designs (Holtec, NAC, TN)
- Experienced supervision and craft
- NDE services including PT/VT, helium leak testing

AZZ | WSI is a global specialty welding and industrial operating company with more than 35 years of experience solving critical energy industry issues – including maintenance, repair, replacement, and overlay solutions/services for the nuclear power industry. AZZ | WSI takes pride in being the industry leader in responsiveness for projects that are critical to safety, schedule and quality.

AZZ | WSI is a fully accredited 10CFR50, Appendix B, Nuclear QA program and is a NUPIC-audited nuclear supplier, AZZ | WSI holds ASME “NA,” “NPT,” “S,” and “U” certificates (code stamps) and also National Board “R” and “NR” certificates.