

MSIV Mapping and Repairs



Integrated tooling and seasoned experts for first time repair performance

Main Steam Isolation Valves (MSIV) provide a critical safety function to any steam supply system, therefore their integrity must be maintained by strict in-service inspection and testing requirements. Operating experience has shown degradation has occurred in these valves, as a result of aging, which may require minor repairs to overhauls to maintain proper functionality.

AZZ | WSI is prepared to perform contingent, planned or emergent valve work wherever and whenever needed. Our repair solutions include seat removal and replacement, valve data mapping, hard-facing repairs (both base metal and stellite), body and flange area repairs, poppet or wedge preparation and repairs. For the repair of MSIV, WSI utilizes a simple setup precision machining and remote welding system. Our proprietary Cylindrical Coordinate Measuring Machine (CCMM) allows for “informed” repairs to valves and long term valve performance analysis.

WSI has performed MSIV repairs in over 135 nuclear power plants around the world including Pilgrim, Oyster Creek, FitzPatrick, Browns Ferry, Nine Mile Point, Cooper, Laguna Verde, Susquehanna, McGuire, Catawba, Davis Besse, Calvert Cliffs, Crystal River, Vermont Yankee, St. Lucie and Cofrentes in Spain.

AZZ | WSI MSIV Highlights:

- Over 135 successful repairs
- Integrated mapping, machining, welding
- Remote video GTAW machine welding
- High tolerance precision machining
- Seat, body, rib, flange and poppet repairs
- Stuck Stud removal operations
- Flexible staffing for disassembly/ reassembly

AZZ | WSI valve repair/ replacement service benefits:

- Consistent quality results
- Reduced schedule and costs
- Reduced dose and improves ALARA results
- Time is spent on valve repair, not equipment setup
- High success rate on LLRT’s

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.