

Large Component Segmentation Services

Maximizing safety, minimizing project concerns



Steam generator segmentation/welding services

WSI was awarded a contract by a major U.S. nuclear utility to perform Steam Generator segmentation/welding services – separating the Steam Dome from the Lower Assembly, and welding a shield cover (Tube Bundle Cover) over the segmented sections. The utility was in a position to seek specialty services to support the segmentation and preparation for disposal of four replaced Steam Generators which had been stored on-site.

WSI has a strong track record of successfully and safely managing and executing unique, large welding/machining projects to meet critical schedule and quality requirements – with heavy wall steel welding being a recognized organizational core competency. WSI's experienced Project Management Team and crew, working collaboratively with the utility customer, applied lessons learned from prior project efforts, experience and recent "best practices" to support a safe and successful execution in all phases of the work.

The goal from the outset was to provide the longstanding client with the value that they expect from WSI by planning and managing the project in a manner that maximizes safety while minimizing project concerns, and executing the project according to schedule and with first-time quality.



One of the largest machining clamshells in the U.S., measuring 180" in diameter, and designed for heavy wall steel piping and component cutting/welding.



Major Project Tasks Included:

- Development and testing of cutting and welding technology to ensure successful field execution.
- Preparation, design and utilization of radiation dose minimization procedures and measures – resulting in minimized dose to craft project personnel during in-field welding and machining evolutions – ALARA.
- Safely performing the severing of the Steam Dome from the Lower Assembly of the Original Steam Generators at the steam domes/ transition cone – experiencing ZERO recordable injury's or first aids on the project.
- Welding a shielding/shipping package Tube Bundle Cover, supplied by the waste handling vendor – to support safe handling and transport of materials.
- Providing the heat treating needed to properly weld the Tube Bundle Cover to the Steam Generator Lower Assembly – to ensure that all code/transportation requirements of the welds were met and weld integrity preserved.
- Engineering services related to welding and machining efforts – including drawings, calcs, procedures, weld documentation, etc. – ensuring that proper planning and administrative controls were utilized in executing this work.
- Performing work in accordance with WSI QA Program.

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