

N221. Automated Reactor Vessel Stud Removal System

Remotely operated equipment for reactor vessel assembly and disassembly are currently in service in European and U.S. plants providing significant critical path benefits. Substantial reduction in worker exposure may be achieved, helping to meet the upcoming 10 CFR 20 requirements.

The Automated Stud Handling and Transportation System (ASHTS) was recently used to remove all of the reactor studs, nuts, and washers at Indian Point #2 in 6 hours with 500 mrem of exposure. Previous outages required 14 hours and rem of exposure. The remotely operated stud-tensioning system works with existing studs and nuts and requires no plant modifications or engineering analysis.

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