

Welded Solutions for the Nuclear Industry

Weld Overlays, Inlays and Dissimilar Welds, Narrow Groove, and Temper-Bead Welding

Combining expertise in industry-specific welding applications and a globally proven track record in first-time-quality emergency repair projects ensures solutions to difficult and complex welding challenges.

Challenge

Regulators, operators, and utilities are faced with new challenges as the fleet of commercial nuclear plants age. And with these challenges comes the important issue of ensuring the safety and integrity of plants for workers, the public, and the environment. Original welds in nuclear power plants suffer from vibration, temperature cycles, residual stresses, high radiation, and intergranular stress corrosion cracking. If unexpected indications are revealed during regular weld inspections, fast response and first-time-quality emergency repairs are needed.

Solution

Relying on profound expertise, personal commitment, existing and innovative solutions, and a proven track record of emergency repair projects, the most difficult and complex welding challenges are accomplished in accordance with the highest quality standards.

All-in-one supplier Framatome provides:

- Consulting, project planning, and engineering
- Application-specific staff training
- Entire preparation of authority documentation
- Welding qualification
- Project execution also in high-radiation areas using remote-controlled high-precision cutting, machining, and welding tools
- Development of special processes, tools, and tailored solutions to challenging and complex problems.

Customer benefits

- Fast response times and first-time quality for first-of-a-kind repairs avoids costly replacements and saves critical path times
- Elimination of forced shutdowns and extended outages
- Benefit from adaptable tooling and processes
- Innovative solutions to solve complex issues

Your performance
is **our everyday commitment**



Narrow-groove welding

Technical information

Narrow-groove welding features:

- Applicable to all nozzle and piping dimensions
- Constant quality and reproducibility
- Shorter welding periods, low shrinkage and low residual stresses in the root area

Dissimilar welds features:

- Applicable to all nozzle and piping dimensions
- Avoidance of stress corrosion cracking through special weld build-up with complete austenitic inner surface
- Patent-registered material combination and build-up with pure Ni-intermediate layer

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