



Leak Detection and Liner Repair Solutions



Before



After

Process successful at 42 plants worldwide

Now Available in the U.S.

Over several decades, the global nuclear power industry has relied on AREVA for solutions to operating challenges in nuclear power plants. Covering the entire spectrum of nuclear plant operations, AREVA builds relationships with utility customers to keep plants running, keep generating capacity up, and help keep the world powered with carbon-free energy.

AREVA adds value by continually developing integrated premier technology and resources to enhance safety, quality, delivery, and performance. Thanks to 20-plus years of experience inspecting and repairing liner leaks in both the reactor cavity and in the spent fuel pool, AREVA can offer U.S. customers a liner repair product that provides a PERMANENT, PROVEN, AND ADAPTABLE solution — and one that has emerged as the industry's safest, most effective, and economical.

Typical Applications

AREVA's approach to liner repair techniques is ADAPTABLE to a wide variety of applications. Extensive experience in manipulator design merged with a unique vacuum-seal technology resulted in new systems to pinpoint leak locations. AREVA holds a U.S. Patent for detecting flaws in a surface submerged in liquid. Typical applications include the following:

- Repairing your stainless steel reactor cavity of pool liners in either dry or underwater conditions
- Sealing leaks caused by mechanical damage or corrosion on walls or pool floors
- Sealing weld joints compromised by stress corrosion cracking in reactor cavity and pool walls or on floors
- Preventing corrosion in spent fuel storage pools
- Lining building compartments to prevent recontamination and enhance decontamination ability

AREVA can apply PERMANENT and exclusive sealing processes over a large area; however, a more precise, surgical approach to a highly-targeted area can increase accuracy, especially when repairing high-priority damage.

Leak Detection



Remote Leak Detection

AREVA continues to perfect remote leak detection technology for both dry and underwater locations. This includes developing vacuum-seal leak detection for a wide array of robotic manipulators.

PROVEN leak-detection capabilities include:

- Standard vacuum box designs for dry and underwater leak detection in flat surfaces, inside corners, outside corners, and three-surface corners, such as the junctions of walls and floors
- Custom-configured leak detection tooling for use on irregular surfaces
- Custom-designed leak detection tooling for areas of limited access, such as the space between spent fuel racks and pool walls, (using gasses i.e., helium) as leak-detecting agents
- Extensive pre-deployment testing and training in a realistic mockup

Why Repair?

Because liner integrity is crucial for a plant's safety and enhanced performance, AREVA can help you act now to prevent unexpected issues. Response teams stand by ready to customize, research and tailor an inspection and repair action plan to your specific needs.

Benefits:

- A permanent solution — not a temporary repair
- Other work can be performed in parallel
- Existing material is not altered (no oxidation, sensitization or dimensional changes)
- Adaptable to almost any geometry

Liner repair results you can trust. People you can count on. Work performed in 42 locations worldwide — over the past 20-plus years — and now in the U.S.



Spent Fuel Pool Corner Repair

AREVA provides its customers with solutions for low-carbon power generation in North America and all over the world.

As the leader in nuclear energy and a significant, growing player in the renewable energies sector, AREVA combines U.S. and Canadian leadership, access to worldwide expertise and a proven track record of performance. Sustainable development is a core component of AREVA's strategy.

Its nearly 5,000 U.S. and Canadian employees work every day to make AREVA a responsible industrial player helping to supply ever cleaner, safer and more economical energy to the greatest number of people.

us.aveva.com

AREVA Inc. – 155 Mill Ridge Road, Lynchburg, VA 24502
For more information, contact – Lanette Van Cleve, Product Manager
Lanette.Vancleve@aveva.com – Tel: 434 832 4811 – Cell: 434 841 4364
or your VP, Key Accounts – regional.manager@aveva.com – Tel: 704 805 2305 – us.aveva.com

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Energy is our future, don't waste it!