

FULL SYSTEM DECONTAMINATION

Dose Reduction Prior to Decommissioning

Framatome's Full System Decontamination (FSD), enables highly efficient decontamination operations for minimum activity inventory and reduced waste generation

Challenge

Safety is of the utmost importance in all phases of the life cycle of nuclear power plants (NPP), including decommissioning. Decontamination prior to decommissioning can significantly reduce volume of radioactive waste, minimizing personnel exposure to radiation and thereby improving safety. An efficient and reliable decontamination process is essential for decommissioning and dismantling of NPPs.

Solution

Framatome's Full System Decontamination (FSD) is a chemical decontamination process of the primary cooling circuit and the main auxiliary systems. It utilizes the CORD* process and the AMDA** System. This flexible decontamination technology can be adapted easily to any NPP to:

- Minimize activity inventory
- Generate metallically clean surfaces
- Optimize gamma/alpha ratio
- Reduce generation of waste

Since dose rates are lowered, the collective radiation exposure is minimized during planning and work activities. Moreover, lower dose and contamination levels help to reduce costs as the need for special and expensive dismantling techniques is reduced.

Framatome's decontamination process has been extensively tested, and features a high degree of material compatibility. It meets NPP requirements for process safety, time constraints and residual activity level, including minimization of generated waste.

*CORD: Chemical Oxidation Reduction Decontamination
 **AMDA: Automatic Mobile Decontamination Appliance



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Customer benefits

- Decrease overall dismantling cost
- Achieve high decontamination factors combined with low mobilization of inactive material
- Generate the lowest amount of secondary rad-waste than most decon process in the market
- High process safety (HSE principles) and avoidance of corrosive toxic chemicals
- Framatome's own modular, flexible, and reliable decontamination equipment (AMDA** system)

Key figures

35 years of experience in decontamination

In **+30** nuclear power plants around the world.

Your performance is our everyday commitment

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