

## 50.69 Alternative Treatment Optimization

Focus on the equipment that is the most important to safety



### Challenge

For nuclear plants implementing 50.69 programs, identifying the most effective alternative treatment is critical for cost reduction and improving reliability and efficiency. The 50.69 process categorizes safety related equipment according to its true safety significance: low safety-significance (LSS) or high safety-significance (HSS). Categorization under 50.69 provides a basis to make changes to existing treatments of RISC-3 equipment via alternative treatments. Alternative treatments deliver the benefits of 50.69, but it can be challenging for plants to implement them.

### Solution

Transitioning to alternative treatments reduces the costs and resource demands for LSS equipment and enables your plant to focus on the HSS equipment for the most important aspects of safety and efficiency. Through our implementation of 50.69 programs, Framatome is providing the nuclear industry with cost-reducing solutions for LSS equipment.

Framatome's turnkey alternative treatment solutions allow you to prioritize and maximize the value of 50.69 categorizations to gain maximum cost reductions while minimizing the labor burden across your teams. Our team has broad expertise with completing high-quality reasonable confidence assessments, procurement and installation support. You can leverage our economies of scale, lessons learned and supplier agreements for maximum value.

### Customer benefits

- Expertise in implementing all aspects of 50.69
- Engineering bench strength and capabilities of a full-service supplier to the nuclear industry with experience establishing reasonable confidence to support alternative treatments
- Identify and prioritize alternative treatment opportunities
- Reduce dose, costs and outage duration
- Reduce testing, inspection and maintenance activities
- Bring updated technology to plant equipment
- Provide new solution paths for obsolete equipment

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is **our** everyday **commitment**



Effective alternative treatments can reduce outage dose, cost and resource demand. In addition, they can significantly reduce maintenance, inspection and testing burden, lower equipment replacement costs and support license renewal programs.

## Transitioning to Alternative Treatments

Framatome has the experience to lead plants through this paradigm shift to alternative treatments. The 50.69 program develops an engineering basis for the true safety-significance of plant equipment providing justification to reduce burdensome requirements for LSS equipment. Stations can remove this equipment from regulatory treatment programs, such as:

- In-service testing and inspection
- Regulator required maintenance programs
- Environmental qualification programs
- Appendix B programs: procurement of new/replacement equipment

From the removal of exempt equipment from station programs, through identification and prioritization of opportunities for savings, to the development of alternative treatments themselves, our team can help you execute all aspects of this process.

Framatome can guide you through the complex considerations and evaluations related to equipment qualification, seismic, digital equipment and cyber security for LSS equipment.

Our team can update station processes and programs to optimize the use of 50.69 across the station to maximize program benefits and return on investments.

Framatome's engineering teams stand ready to support you with executing all aspects of your 50.69 implementation from developing the LAR through system categorizations and alternative treatments.

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