

# Risk Informed Engineering Programs

## 10 CFR 50.69 — And More

As the nuclear industry faces escalating economic challenges, there are increasing drivers to reduce operating costs while maintaining exceptional nuclear safety. Through the NEI initiative to Deliver the Nuclear Promise, the industry is rethinking operating practices to improve efficiency and achieve these objectives.

Using advanced risk analysis to inform operation and maintenance activities offers utilities an opportunity to gain efficiencies and reduce costs in a broad spectrum of plant processes and programs. The concept has a proven track record of reducing organizational impact and costs while maintaining or improving safety.

10 CFR 50.69 provides opportunities to go even further by allowing licensees to categorize equipment using a risk informed process and adjust treatment requirements consistent with the significance of the equipment.

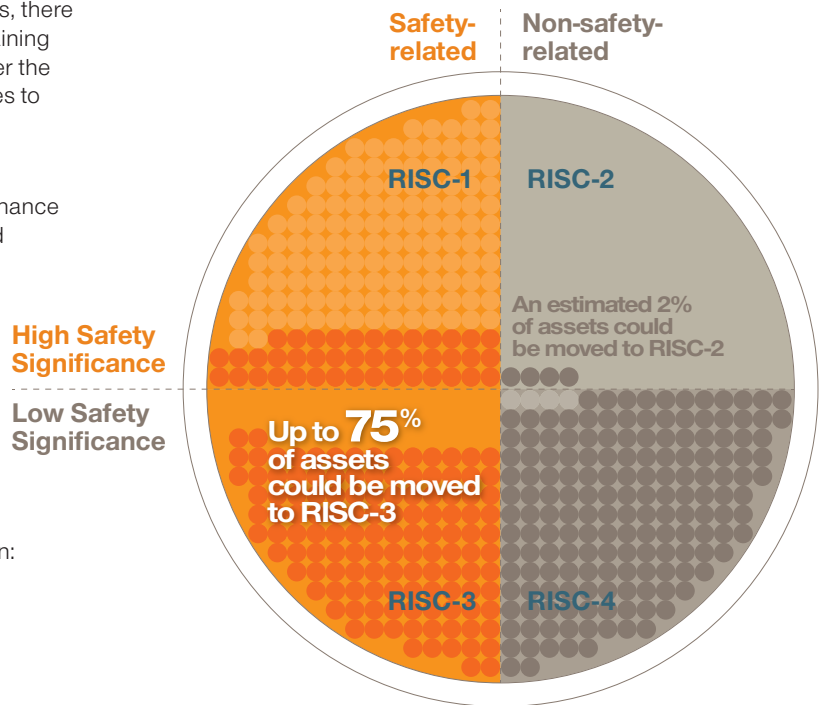
For example, under a 10 CFR 50.69 methodology, utilities can:

- Improve operational flexibility while maintaining the highest levels of nuclear safety
- Simplify work and reduce costs
- Potentially shorten outage durations
- Significantly reduce O&M costs

AREVA offers unparalleled capabilities to support utilities in developing and implementing risk informed operations. Our flexible approach is designed to be methodical and implemented on your schedule to deliver optimum benefit, while minimizing risk.

AREVA offers a multi-disciplinary team of engineering, procurement, design and licensing experts with decades of experience to help with:

- Licensing / License Amendment Request (LAR) support
- Training and change management
- Gap analysis / Probabilistic Risk Assessment (PRA)
- Expert panel reviews (PRA and integration)
- Document and engineering updates
- Procedure and program updates
- Configuration control management
- Peer reviews
- Overall project integration



**Benefit of Implementing 10 CFR 50.69** — reducing the number of items procured in accordance with Appendix B by up to 75%

**AREVA offers expertise in all disciplines needed to successfully develop, implement and execute risk informed engineering programs**



**Only AREVA brings together all of the aspects of asset cost optimization. No other company can deliver the benefits and features of AREVA's risk informed engineering programs.**

Asset Cost Optimization Task	AREVA
PRA program enhancements (peer reviews, gap analysis)	✓
10 CFR 50.69 LAR submittal	✓
Prioritize highest cost maintenance systems	✓
10 CFR 50.69 categorize systems	✓
Preventative maintenance optimization	✓
Select items for commercial grade dedication	✓

### Features & Benefits:

- Full service, highly experienced Licensing team that stands ready to prepare the LAR and work with you to address any Requests for Additional Information (RAI) from the NRC
- Highly skilled PRA department to manage the PRA analysis
- Expertise to develop and implement cost reduction measures for all RISC-3 components
- Industry-recognized experts who have been instrumental in developing industry-wide standards and tools for 10 CFR 50.69 implementation
- Turnkey solution, offering single point of contact to develop and implement all aspects of risk informed operations
- Enhancing efficiency to focus on improving safety and reducing cost
- Reduction in dose
- Major savings with increasing equipment reliability, availability and decreasing outage times
- Removes the need to obtain parts from safety-related equipment suppliers and instead purchase industrial grade parts
- Reduces inspection and testing frequencies
- Reallocation of site resources

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