

# Risk Informed Engineering Programs 10 CFR 50.69

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 for Delivering the Nuclear Promise®, the industry is rethinking operating practices to improve efficiency and achieve these objectives. In response, AREVA has teamed with C.R. Grantom P.E. & Associates, LLC (CRG LLC) to provide services implementing Risk Informed Engineering Programs (10 CFR 50.69) to the nuclear industry. This agreement combines Rick Grantom and his team's extensive industry experience implementing all aspects of 10 CFR 50.69, with the engineering expertise and diverse capabilities of AREVA to provide a full-scope solution for our customers.

Efficiency bulletins (EB) 17-09 and 17-16 call for the industry to implement 10 CFR 50.69, a voluntary rule that allows a licensee to:

- Increase focus on the safety
- Improve operational flexibility
- Simplify work and reduce costs
- Shorten outage durations
- Significantly reduce O&M costs

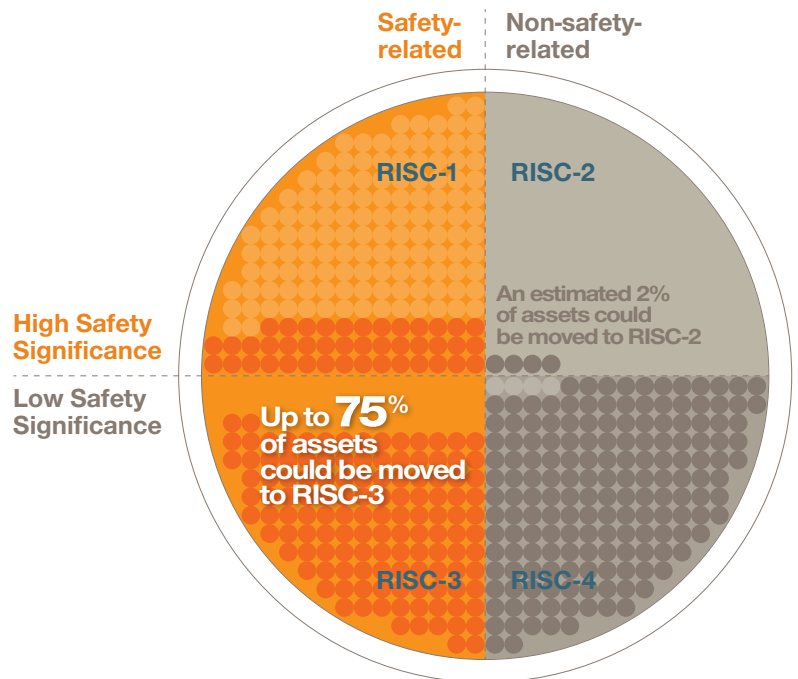
10 CFR 50.69 provides a risk-informed methodology that uses risk-insights from a plant's probabilistic risk assessment (PRA) as well as engineering, operational and other insights to differentiate between plant components based on their importance to the overall safety of the plant or safety significance.

Safety-related components determined to be of low safety significance are categorized as RISC-3 and are exempted from the requirements of 12 regulatory special treatment programs including:

- Appendix B
- Maintenance Rule
- Local Leak Rate Testing
- Environmental Qualifications
- In-service Testing and Inspection

Alternative treatments are developed by the utility for low safety significance equipment which provide benefits like:

- Low safety significant, safety-related equipment can be purchased as commercial grade parts
- Reduced reporting requirements for maintenance and other activities
- Increased maintenance flexibility and "tool pouch" maintenance options
- Reduced inspection and testing frequencies
- Reallocation of site resources



**Benefit of Implementing 10 CFR 50.69** — improved safety focus, regulatory burden reduction and reducing the number of items procured in accordance with Appendix B by up to 75 percent.

» **AREVA has the subject matter experts to support all phases of implementation including development of alternative treatments, new programs and procedures, changes to existing programs, and training for site staff.**



**AREVA recognizes the paradigm shift that 10 CFR 50.69 represents for the industry and is prepared to assist with the training program roll-out and culture change required to successfully implement the program.**

10 CFR 50.69	AREVA Team
Business Case Development	✓
Change Management	✓
Planning and Strategy	✓
License Amendment Request (LAR)	✓
Probabilistic Risk Assessment (PRA)	✓
Operations	✓
Systems Engineering	✓
Design Engineering	✓
Environmental Qualification	✓
Procedure and Program Development	✓
Training	✓
Alternative Treatments	✓
10 CFR 50.69 Procurement Solutions and Procurement Engineering	✓
Supply Chain Solutions	✓
Commercial Grade Dedication	✓

**AREVA Inc.**

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