

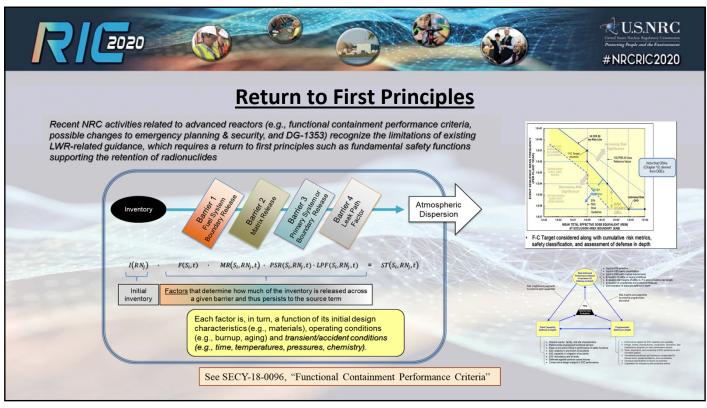


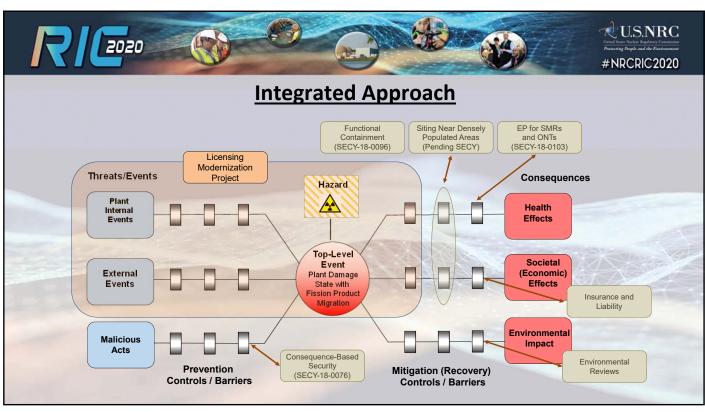
Nuclear Energy Innovation and Modernization Act (NEIMA)

NEIMA defines "advanced nuclear reactor" as "a nuclear fission or fusion reactor, including a prototype plant . . . with significant improvements compared to commercial nuclear reactors under construction" as of January 14, 2019, including improvements such as additional inherent safety features; significantly lower levelized cost of electricity; lower waste yields; greater fuel utilization; enhanced reliability; increased proliferation resistance; increased thermal efficiency; or ability to integrate into electric and nonelectric applications.

§ 103(a)(2)—"Not later than 2 years after enactment, the Commission shall develop and implement, where appropriate, strategies for the increased use of risk-informed, performance-based licensing evaluation techniques and guidance for commercial advanced nuclear reactors within the existing regulatory framework...."

§ 103(a)(4)—"Not later than December 31, 2027, the Commission shall complete a rulemaking to establish a technology-inclusive, regulatory framework for optional use by commercial advanced nuclear reactor applicants for new reactor license applications."







Path Forward

- Issue Regulatory Guide 1.233, "Guidance for a Technology-Inclusive, Risk-Informed, and Performance-Based Methodology to Inform the Licensing Basis and Content of Applications for Licenses, Certifications, and Approvals for Non-Light-Water Reactors."
- Develop technology-inclusive guidance for content of applications.
- Continue identification and resolution of policy and key technical issues.
- Develop 10 CFR Part 53, "Licensing and Regulation of Advanced Nuclear Reactors."

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