

U.S. Nuclear Regulatory Commission Near-Term Challenges

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Chairman

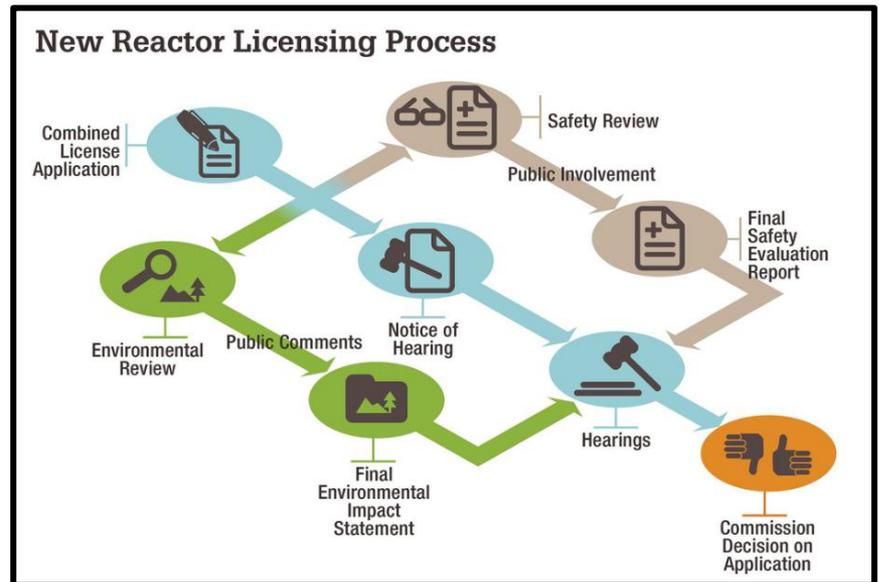
U.S. Nuclear Regulatory Commission

New Technologies for a Nuclear Expansion Program

June 19, 2017

New Reactor Licensing

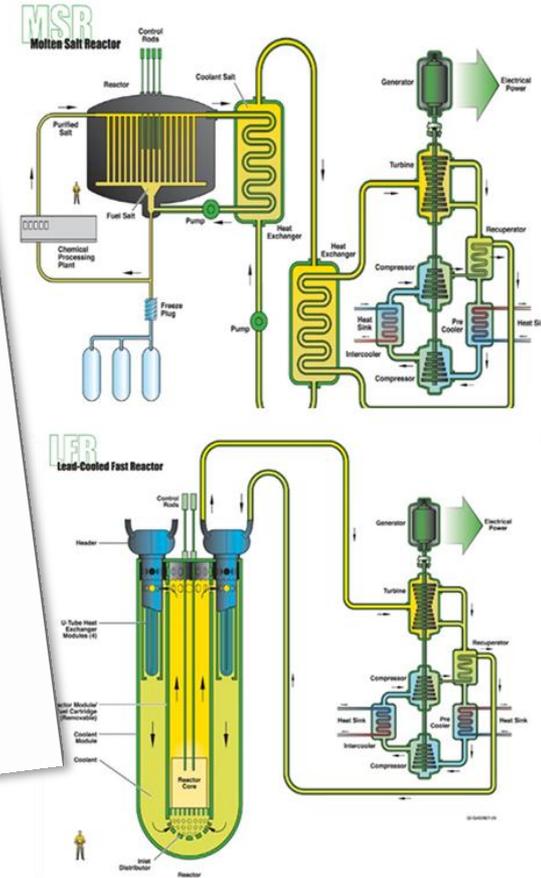
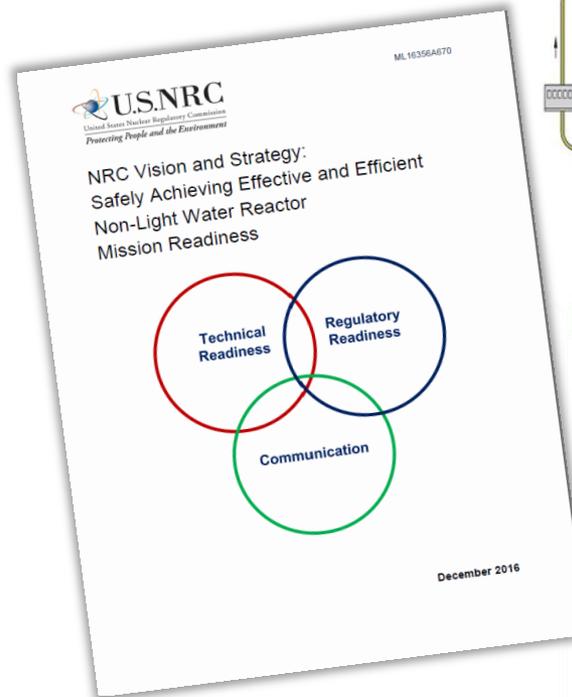
- Combined licenses
 - First combined licenses issued in 2012 (Vogtle and V.C. Summer)
 - Since then, NRC has authorized combined licenses at 5 additional sites
 - Reviewing 1 application
- Early Site Permits
 - 5 have been approved
 - Reviewing 1 application
- Design Certifications
 - 5 have been approved
 - Reviewing 3 applications, including 1 small modular reactor application



New Reactor Licensing (cont'd)

- Non-Light Water Reactors Readiness Activities

- Vision and Strategy
- Implementation plans
- Regulatory roadmap
- Regulatory guidance
- Workshops
- International outreach



Transition from plant construction to operation

- Maintaining continuity in oversight is critical
- Working group developed an integrated plan for the transition
- Report identified 21 readiness issues
- Final implementation plan to transfer regulatory oversight and licensing for the AP1000 design center will be issued in 2017

Long Term Operation and Subsequent License Renewal

- Long Term Operation
 - 87 units approved for a 20-year period of extended operation
 - Focus on aging of passive structures, systems, and components
 - International outreach and workshops to exchange lessons and knowledge
- Subsequent License Renewal
 - Industry expressed interest in operating plants beyond 60 years
 - First application expected in 2018
 - Confirmatory research being conducted

Transition from operation to decommissioning

- 6 reactors shut down since 2013
- 7 reactors announced plans to shut down prior to the expiration of their licenses
- NRC initiated a decommissioning rulemaking
 - Proposed rule will be provided for NRC Commission consideration in May 2018

Project Aim

- Established to enhance NRC's ability to execute its mission while adapting to fact-of-life changes
- NRC established that we could function more effectively by:
 - Right-sizing the agency while retaining mission-critical skills
 - Streamlining processes to use resources more wisely
 - Improving timeliness in decision-making processes
- NRC workload reviewed to identify work to be eliminated, deferred, or done with fewer resources



Project Aim (cont'd)

- Throughout the Project Aim experience, NRC focused on the following:
 - Organizations must be agile. Have the right number of people, right skills, at the right time. Balance existing resources with future expectations.
 - Maintain transparency and solicit feedback
 - Most importantly -- Maintain focus on safety and security mission