NRC's Overall Vision and Strategy for Non-Light-Water Reactors

Amy Cubbage
Senior Project Manager
April 25, 2017

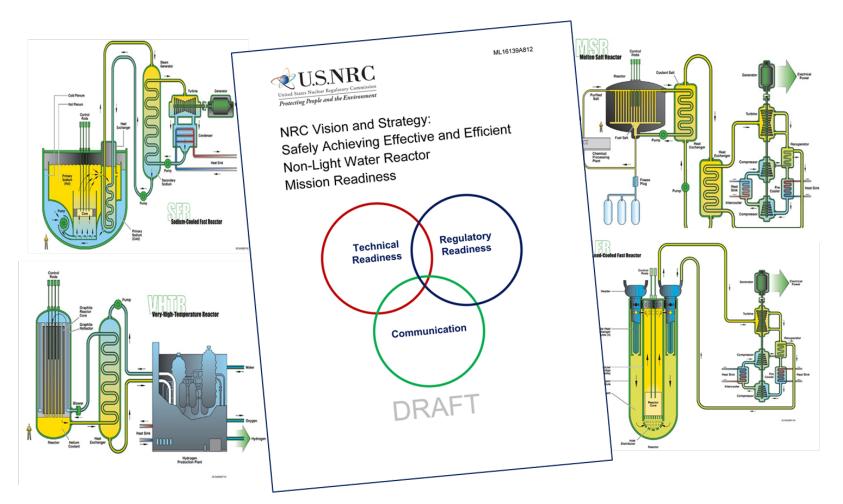


<u>Outline</u>

- Vision and Strategy
- Implementation Action Plans
- Executing the Vision
- Stakeholder Engagement



Vision and Strategy



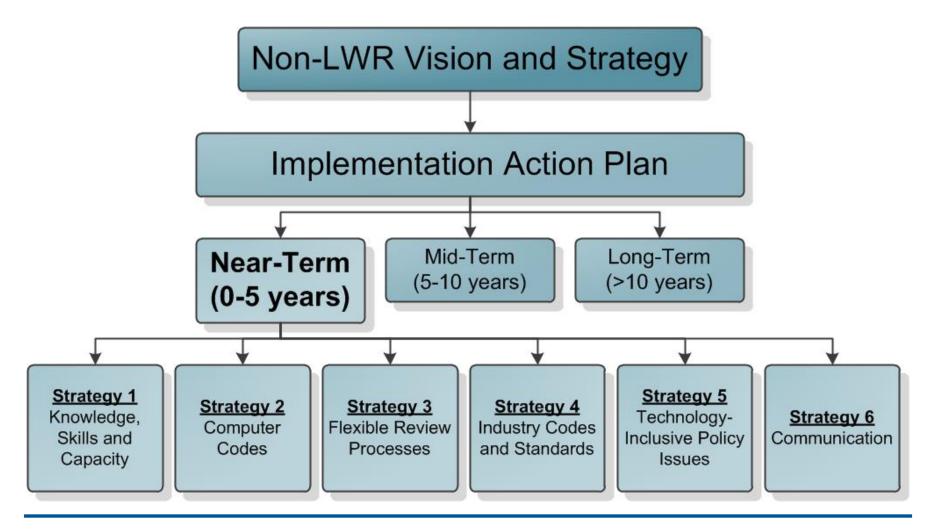


Implementation Action Plans

- The IAPs are planning tools that describe:
 - Work to be done to achieve non-LWR readiness
 - Resources needed to accomplish the work
 - How to prepare the workforce to do the work
- Timeframes
 - Near-term (0-5 years)
 - Mid-term (5-10 years)
 - Long-term (>10 years)



<u>Implementation Action Plans</u>





Near-Term Implementation Action Plan

Six Strategies:

- Acquire/develop sufficient knowledge, technical skills, and capacity to perform non-LWR regulatory reviews
- 2. Acquire/develop sufficient computer codes and tools to perform non-LWR regulatory reviews
- 3. Develop guidance for a flexible non-LWR regulatory review process within the bounds of existing regulations, including the use of conceptual design reviews and staged-review processes

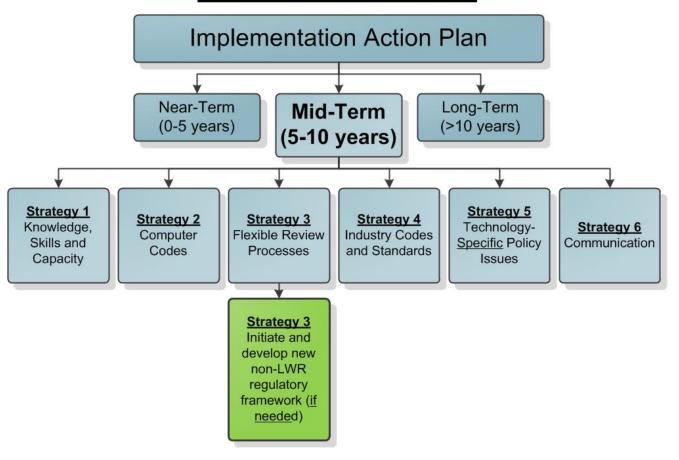


Near-Term Implementation Action Plan

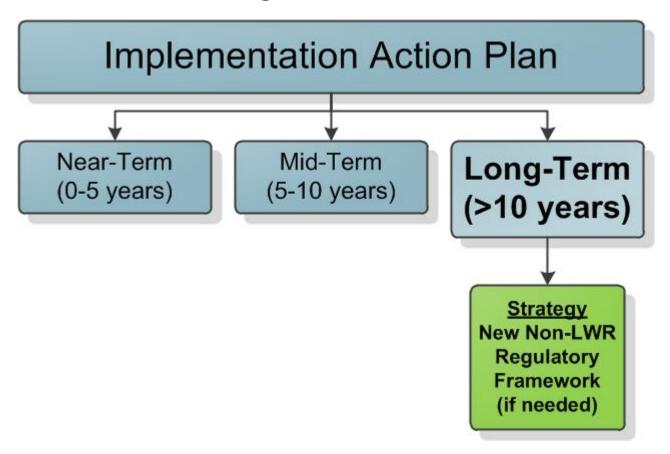
- 4. Facilitate industry codes and standards needed to support the non-LWR life cycle (including fuels and materials)
- Identify and resolve technology-inclusive policy issues that impact the regulatory reviews, siting, permitting, and/or licensing of non-LWR nuclear power plants (NPPs)
- Develop and implement a structured, integrated strategy to communicate with internal and external stakeholders having interests in non-LWR technologies



Mid-Term IAPs

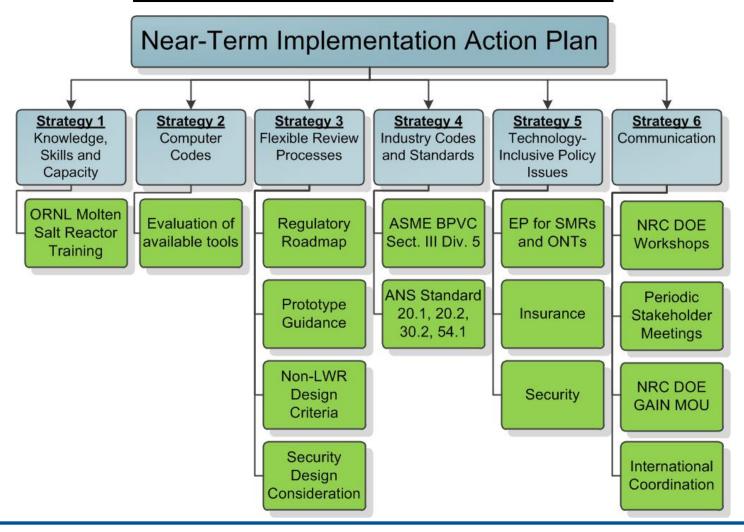


Long-Term IAPs





Executing the Vision





Ongoing Activities

- Regulatory Review Roadmap
- Advanced Reactor Design Criteria
- Security Design Considerations
- Prototype guidance



Stakeholder Engagement

- Seeking stakeholder feedback at all steps
- Stakeholder meetings every 6 weeks
- Pre-application engagement
- Memorandum of Understanding with DOE
 - Gateway for Nuclear Innovation (GAIN)
- Information from prospective applicants informs budget, schedule and priorities
- International Coordination



Pre-Application Activities

- Oklo, Inc.
- Terrestrial Energy
- Core Review Team Approach
- Additional pre-application reviews anticipated in the near-term





<u>Summary</u>

- Vision and Strategy sets high level goals and objectives to achieve readiness
- NRC is moving from planning to execution
- We need your input to inform our actions

