Objectives

• Pre-Application Interactions
• Guidance Development
• Enhanced Safety-Focused Review
• SMR Regulators Forum
• Status of SMR Licensing in the U.S.
Pre-Application Interactions

• Earliest possible interaction of applicants, vendors, other government agencies, and the NRC
• Early resolution or identification of a clear path to resolution for issues related to SMRs
• SMR Workshops
• Potential policy and licensing issues based on the preliminary design information
Guidance Development

• Design-Specific, Risk-Informed Review Plans

• Design Specific Review Standards (DSRS)
  – mPower: Draft DSRS issued for public comment in 2013.
  – NuScale: Draft DSRS issued for public comment in 2015. Final DSRS was issued in 2016.

• Pre-Application Readiness Reviews
Enhanced Safety-Focused Review

- Enhanced Safety-Focused Review (ESFR)
- ESFR Working Group
  - Helps to ensure that the NRC remains focused on the most important areas of the design
  - Promotes a consistent review approach throughout the entire review
SMR Regulators Forum

• Value in sharing insights with other regulators internationally

• NRC assisted in the establishment of the SMR Regulators Forum at the International Atomic Energy Agency
  – Provides understanding of each member’s regulatory views on common issues to capture good practices and methods
  – Documents and disseminates the results of the discussions, and interact with key stakeholders to effectively inform the forum activities
Status of SMR Licensing in the U.S.

• NuScale SMR Design Certification (DC)
  – NuScale Power’s DC application was accepted and docketed for technical review in March 2017
  – Technical review in progress with a final safety evaluation report (FSER) completion date scheduled for September 2020.

• Clinch River SMR Early Site Permit (ESP)
  – Tennessee Valley Authority (TVA) submitted an ESP application for two or more SMR modules (up to 800 MWe) in May 2016.
  – Technical review in progress with an FSER completion date scheduled for August 2019.
Summary

• NRC has spent the last several years preparing to review applications for SMRs
• NRC encourages frequent and substantive interactions with SMR designers and other stakeholders because such communications improves the efficiency and effectiveness of the review process
• NRC is now well positioned to review SMR applications
Thank You

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