



# Regulatory Considerations for Very Long Term Dry Storage of Spent Fuel

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# Current Actions

- Continue to Review Yucca Mountain application until officially instructed otherwise
- Prepare for a future without Yucca Mountain
  - Integrated plan
    - Very long-term dry storage
    - Reprocessing
    - future disposal options
  - COMDEK

# SRM COMDEK 09-001

- Staff Requirements Memorandum (SRM) COMDEK09-001 directs the staff to develop a plan to review the regulatory programs associated with the storage and transportation of spent nuclear fuel. In addition the SRM directs the staff to consider what work is needed to support storage of fuel for periods in excess of 120 years.

# Very Long-term Dry Storage

- Regulatory requirements
- Technical data and research requirements
- Collaboration with Domestic and International Stakeholders

# Potential Regulatory Requirements

- Potential rulemaking to address short-term and very long-term requirements
- Possible integration of storage and transport regulations – currently separate
- Risk informing
- Reevaluate standards, guidance

# Supporting Research

- Gap analysis of potential safety and security Issues
- Research to develop tools to make regulatory decisions regarding issues identified in the gap analysis
- Long-term Cask Demonstration to confirm results and provide continued assurance

# Outreach

- Participation in EPRI Meetings with Industry and DOE Stakeholders
- Participation in International Committees
- Public outreach and transparency

# Roles and Responsibilities

- Industry
  - Obtain sufficient information to demonstrate safety of very long term dry storage
- NRC
  - Evaluate data provided by industry to confirm that safety basis is met
  - Develop regulatory infrastructure to support very long term dry storage

# Summary

- NRC is prepared to enhance regulatory infrastructure to better support very long term dry storage
- Industry and Department of Energy support for technical research can help ensure that regulatory solutions are appropriate and efficient