Updates and Current Status of Select NRC Activities Related to Spent Nuclear Fuel Storage and Transportation

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Southern States Energy Board
Joint Meeting of the Radioactive Materials Transportation Committee and the Transuranic Waste Transportation Working Group

December 6-7, 2017
Nashville, TN
Topics

- Vacant Commissioner Positions
- NRC Budget
- NRC Draft Strategic Plan
- Rulemaking Topics of Interest
- Federal Register Notices of Interest
- Decommissioning and Interim Storage
- Managing Aging Processes for Storage (MAPS)
- Yucca Mountain
- Cyber Security
- Harmonization with the IAEA Transportation Standards
- Publications
- Q&A
Vacant Commissioner Positions

Current Commission:
- Chairman Kristine Svinicki
- Commissioner Baran
- Commissioner Burns

In the future (?):
- Annie Caputo
- David Wright
NRC Budget

- Currently operating under a Continuing Resolution (CR)
  - Ends December 8, 2017
NRC Draft Strategic Plan

• NRC is in the process of finalizing its FY 2018-2022 Strategic Plan

• The NRC’s Strategic Plan provides a blueprint for the agency to plan, implement, and monitor the work needed to achieve our Mission

• The Commission issued a Staff Requirements Memorandum (SRM) with their approved draft FY 2018-2022 Strategic Plan, which was published in the Federal Register for public comment through (October 26, 2017)

• The draft FY 2018-2022 Strategic Plan remains consistent with the FY 2014-2018 Strategic Plan and emphasizes continued focus and commitment to NRC’s Mission and strategic goals of safety and security
Decommissioning rulemaking

- **Draft Regulatory Basis**
  - Published in the *Federal Register* (March 2017)
  - Staff considered public comments

- **Regulatory Basis**
  - Published in the *Federal Register* (November 27, 2017)
  - Staff concludes that there is sufficient justification to proceed to rulemaking in several areas
  - Staff concludes that guidance can be developed
    - Role of States and local governments in decommissioning process
    - The level of NRC review/approval of post-shutdown decommissioning activities report
    - The 60-year limit for power reactor decommissioning

- **Draft proposed rule due to the Commission May 2018**
- **Draft final rule due to the Commission October 2019**
- **Public involvement**
Managing Aging Processes for Storage [MAPS] (Draft NUREG-2214)

• FRN (October 24, 2017)

• Draft NUREG-2214 (ML17289A237)

• Comment period closes December 26, 2017
Consolidated Dry Storage Standard Review Plan

- “Standard Review Plan for Spent Fuel Dry Storage Systems and Facilities” (NUREG-2215)
  - Published a “Notice of availability” of draft NUREG-2215 for public comment (November 15, 2017) for public comment (45 days)
  - NUREG-2215 consolidates guidance from NUREG-1536 and NUREG-1567 as well as several interim staff guidance documents

- Final NUREG-2215 scheduled for publication in September 2018
Decommissioning and Interim Storage

- Decommissioned
  - 10 units (7 have ISFSI-only fuel on site)
- Decommissioning
  - 20 units
- Announced decommissioning
  - 8 units
- Consolidated Interim Storage Facilities (CISF)
- Waste Control Specialists (WCS) Application
  - Application received April 2016
  - Accepted in January 2017
  - Suspension requested in April 2017
  - NRC suspended WCS CISF application review
- Holtec Application
  - Application received March 2017
  - Currently in Acceptance Review
  - Awaiting RSI response (December 23, 2017)
Managing Aging Processes for Storage (MAPS) (Draft NUREG-2214)

- NRC staff experience with the renewal of licenses and certificates of compliance for the storage of spent nuclear fuel revealed a need for expanded guidance
- Clarity of NRC staff technical position
  - Identification of the credible aging mechanisms and appropriate aging management activities
  - Applicants must still show that the generic guidance is applicable to their specific sites and CoCs
- FRN (October 24, 2017)
- Draft NUREG-2214 (ML17289A237)
- Comment period closes on December 26, 2017
Yucca Mountain

- NRC is ready to support hearings if
  - Congress appropriates funds
  - Commission directs staff to initiate work
Independent Spent Fuel Storage Installations (ISFSIs)
Cyber Security

• Proposed cyber security rulemaking
  – Submitted to Commission on Oct 4, 2017
  – SRM-SECY-14-0147, (ML15083A175)
  – SECY-17-0099, (ML17018A218)
• Requirement for Fuel Cycle Facilities
• Regulatory Basis (ML15355A466)
• Draft Regulatory Guide [DG-5062] (ML16319A320)
• If approved, comment period in mid-2018
Harmonization with the IAEA Transportation Standards

- Issues paper (ML16299A298)
- FRN (81 FR 83171)
  - Public meeting December 5 – 6, 2016
  - 60 day comment period - November 21, 2016 through January 20, 2017
- Regulatory Basis in development
- Working with U.S. Department of Transportation
- Final Rule – September 2021
• NUREG/BR-0292, Rev. 2: “Safety of Spent Fuel Transportation” (2017) [ML16237A133]
Safety of Spent Fuel Storage

- NUREG/BR-0528
- April 2017
- ML17108A306
Fire Study Compendium

Questions

Thank you for your attention.