



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

David W. Pstrak

Senior Project Manager
Division of Spent Fuel Management
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission

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



Rulemaking Topics of Interest

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



Federal Register Notices of Interest

Managing Aging Processes for Storage [MAPS] (Draft NUREG-2214)

- FRN (October 24, 2017)
 - <https://www.federalregister.gov/documents/2017/10/24/2017-22983/managing-aging-processes-in-storage-report>
- Draft NUREG-2214 (ML17289A237)
- Comment period closes December 26, 2017



Federal Register Notices of Interest (cont'd)

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)

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

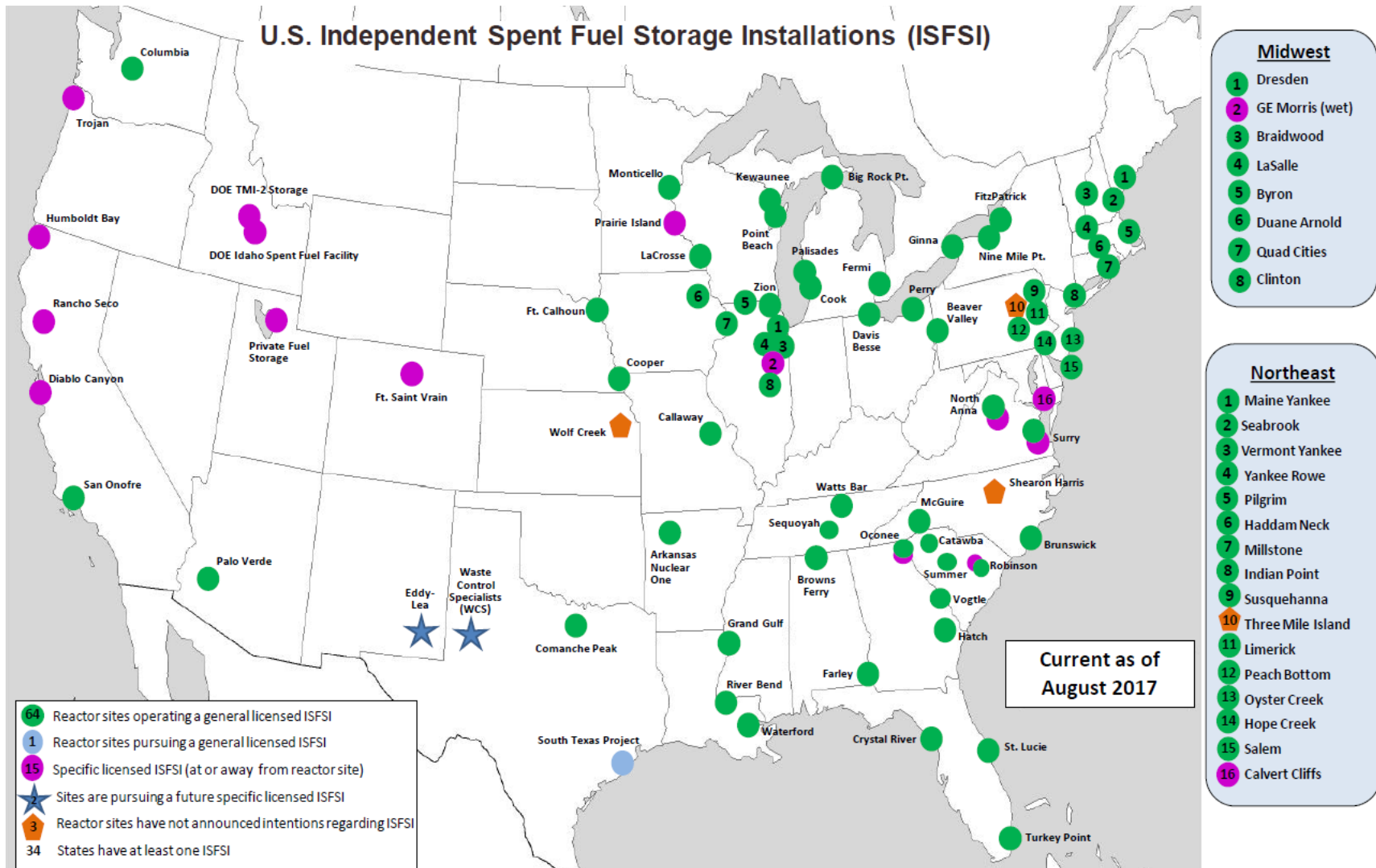


Yucca Mountain

- 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

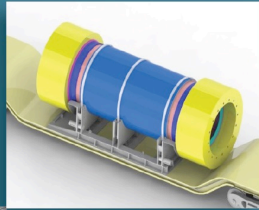


Harmonization with the IAEA Transportation Standards

- 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



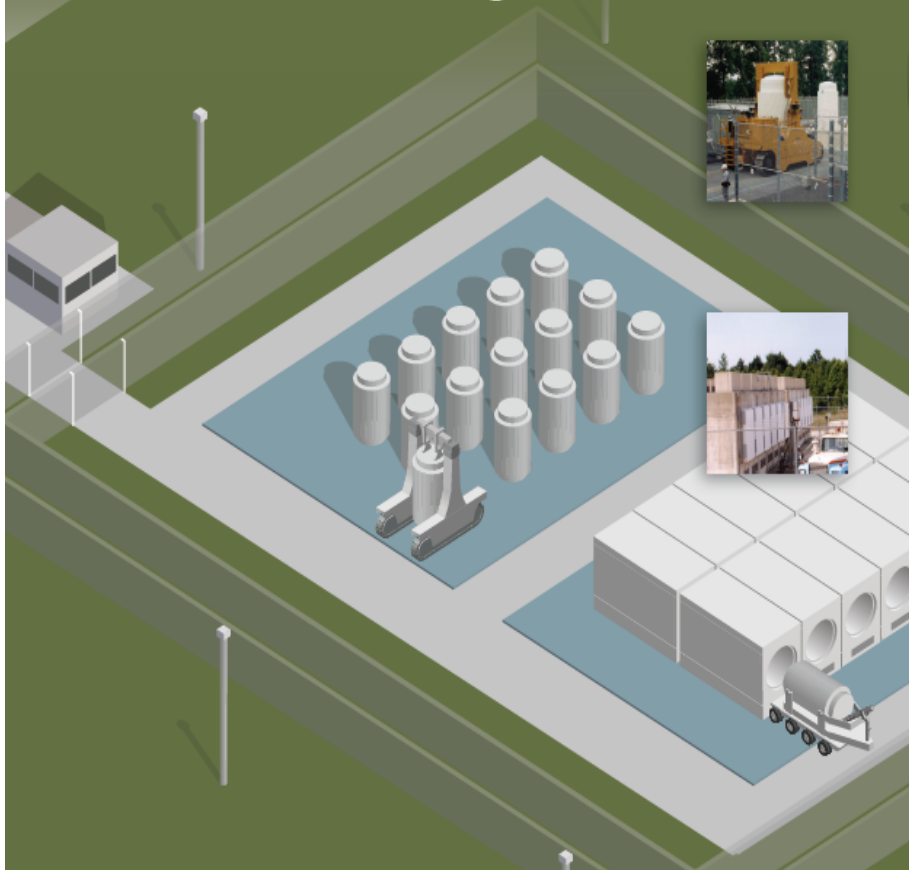
Safety of Spent Fuel Transportation



- 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

- NUREG/CR-7209: “A Compendium of Spent Fuel Transportation Package Response Analyses to Severe Fire Accident Scenarios - Final Report” (2017) [ML17066A101]



Questions

Thank you for your attention.

