DOE’s Integrated Program for the Management and Disposal of Nuclear Waste

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Disclaimer

This is a technical presentation that does not take into account the contractual limitations under the Standard Contract for Disposal of Spent Nuclear Fuel and/or High-Level Radioactive Waste (Standard Contract) (10 CFR Part 961). Under the provisions of the Standard Contract, DOE does not consider spent nuclear fuel in multi-assembly canisters to be an acceptable waste form, absent a mutually agreed to contract amendment. To the extent discussions or recommendations in this presentation conflict with the provisions of the Standard Contract, the Standard Contract provisions prevail.
President’s FY18 and FY19 Federal Budget Proposal requested funding for resuming licensing Yucca Mountain and initiating robust interim storage.

DOE is prepared to support resumption of Yucca Mountain Licensing.

DOE supports development of interim storage capabilities for spent nuclear fuel.

Awaiting Congressional FY19 appropriations.
Office for Spent Fuel & Waste Disposition continues to conduct analysis, research & development to support eventual spent nuclear fuel (SNF) transportation.
Analysis Indicates 7 Year Lead Time
Key Activities on Critical Path

Prior activities

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- Coordination with NRC, DOT and other Federal Agencies as required – Transportation System Data Gathering and Analysis – State and Tribal Engagement, Outreach to Other Stakeholders
- Program Management and Support

- DOE Stands Up Transportation Program
- Develop/Update NEPA Strategy for Transportation
- Acceptance Queue/Transportation Modes Established
- Obtain Casks and Hardware
- System Testing/Readiness Review
- Initial Shipment from Origin Site
Long-Lead Time Items

- Railcar rolling stock designs that meet Association of American Railroad’s S-2043 Standard, and fabricated railcar fleet
  - Cask and buffer cars
  - Escort car
- Casks, impact limiters, and associated transportation equipment
- Maintenance capability for casks, and for railcars
Technical Issues for Transporting SNF

- Updated certificates of compliance (COCs) for transportation casks
- “Odds and ends” packages (e.g. Big Rock Point, Davis Besse)
- Transportation infrastructure at/near origin sites
- 14 Shutdown sites visited: No showstoppers to moving the fuel off-site
FY18 Technical Transportation Activities

- Railcar prototype fabrication
- Analysis of data from rail cask transport test
  - Thermal model validation
- Prepare for shutdown site visit
  - Oyster Creek
- Initial site-specific de-inventory analyses
- System tools development and maintenance
Questions ?