



U.S. DEPARTMENT OF
ENERGY

DOE ACTIVITIES ON INTERIM STORAGE

NRC 2016 REGULATORY INFORMATION CONFERENCE

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DISCLAIMER

- This presentation describes DOE-NE's research and development efforts to explore technical concepts which could support future decision making by DOE.
- The reports discussed in this presentation were prepared to further DOE-NE's objective of developing a suite of options and set of supporting analyses that will enable future informed choices about how best to manage SNF and HLW.
- These reports should not be interpreted as a statement of DOE policy as to how it intends to fulfill its acceptance obligation under the Standard Contract for Disposal of Spent Nuclear Fuel and/or High-Level Radioactive Waste, 10 CFR Part 961. To the extent the discussions or recommendations in these reports conflict with the provisions of the Standard Contract, the Standard Contract provisions prevail.

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The Administration's Strategy for the Management and Disposal of Used Nuclear Fuel and High-Level Radioactive Waste includes a phased, adaptive, and consent-based approach to siting.

"With the appropriate authorizations from Congress, the Administration currently plans to implement a program ... that:

- Sites, designs and licenses, constructs and begins operations of a **pilot interim storage facility** ... with an initial focus on accepting used nuclear fuel from shut-down reactor sites;
- Advances toward the siting and licensing of a **larger interim storage facility** ... that will have sufficient capacity to provide flexibility in the waste management system and allows for acceptance of enough used nuclear fuel to reduce expected government liabilities; and
- Makes demonstrable progress on the siting and characterization of repository sites to facilitate the availability of a geologic repository."

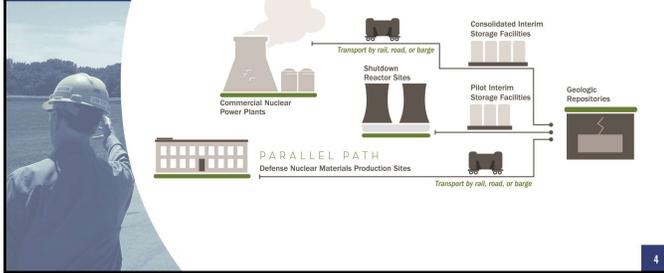
STRATEGY FOR THE MANAGEMENT AND DISPOSAL OF USED NUCLEAR FUEL AND HIGH-LEVEL RADIOACTIVE WASTE

 JANUARY 2015

ADMINISTRATION'S STRATEGY

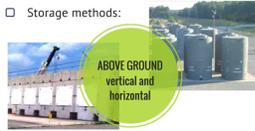
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INTEGRATED WASTE MANAGEMENT SYSTEM



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- Consolidated Storage Facility Design Concepts (Task Order 11)
- Used Fuel Management System Architecture Evaluation
- Project Concept for Nuclear Fuels Storage and Transportation
- Functions and Requirements for Storage and Transportation
- Generic Design Alternatives for Dry Storage of SNF



INITIAL INTERIM STORAGE ACTIVITIES

via industry contracts and national laboratory studies

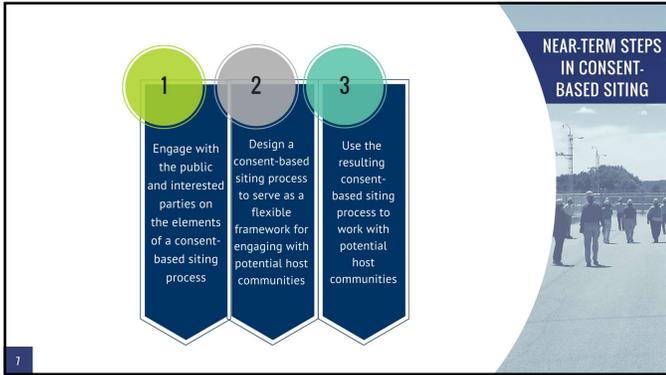
- Explored alternatives for dry storage as well as cask handling methods and configurations
- Storage methods:

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NEXT STEPS FOR INTERIM STORAGE

- Pilot Interim Storage of Spent Nuclear Fuel: Generic Design and Topical Safety Analysis Report
 - Fully developing and documenting a generic pilot ISF design for the receipt and storage of SNF and GTCC-LLW currently in dry storage canisters at shutdown reactor sites
 - Not location specific
 - A Topical Safety Analysis Report suitable for NRC review, approval, and issuance of a Safety Evaluation Report
- Develop design concepts for additional functional capabilities at an ISF

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INVITATION FOR PUBLIC COMMENT

- How can the Department ensure that the process for selecting a site is fair?
- What models and experience should the Department use in designing the process?
- Who should be involved in the process for selecting a site, and what is their role?
- What information and resources do you think would facilitate your participation?
- What else should be considered?

E-mail responses to consentbasedsiting@hq.doe.gov

LOCATION	DATE	PUBLIC MEETINGS
Chicago, IL	March 29	
Atlanta, GA	April 11	
Sacramento, CA	Late April	
Denver, CO	Late May	
Boston, MA	Early June	
Tempe, AZ	Late June	
Boise, ID	Mid July	
Minneapolis, MN	Late July	