

## Office of NUCLEAR ENERGY







Critical decision (CD)-0 was recently approved for Department of Energy's (DOE's) Consolidated Interim Storage Facility project. Learn more about this milestone.

The CD process\* is used by DOE to manage the Department's large-scale, long-term projects, also known as capital projects.

DOE is implementing a consent-based siting process to site one or more federal consolidated interim storage facilities for commercial spent nuclear fuel, which is considered a "major system project," requiring internal CD process review. The CD process accounts for internal DOE project management, concurrent to the Department's consent-based siting approach, which will ensure the participation of communities, State and local governments, Tribal Nations, and other interested parties.

### **DOE's CD** process ensures that a project:



**Finishes on time** 



**Meets mission performance requirements** 



**Finishes within budget** 



**Meets safeguards and security requirements** 



Meets environmental, safety, and health requirements

Learn more about the consent-based siting process



#### What are the Five Critical Decisions?

The CD process ensures stringent review and approval by the Deputy Secretary of Energy for each step in the project. The CD process outlines five milestones that each represent a critical phase in the project's lifecycle.



Approve Mission Need - This initial decision confirms there is a need for the project that cannot be met through other means.



Approve Alternative Selection and Cost Range - Determines the best approach and estimates the project costs.



Approve Performance Baseline – Establishes detailed scope, schedule, and cost baselines.



Approve Start of Construction
Execution – Authorizes the
beginning of construction
or project execution.



Project Completion -Marks the project's readiness for operation.

#### Why Was CD-0 Approval Important?

CD-0, or "Approve Mission Need," was the first and foundational step in the CD process for consent-based siting. It validates there is a justified need for DOE's consolidated interim storage facility project for removal, transport, and interim storage of spent nuclear fuel. This approval allows the project to move forward to the next stages of planning and development.

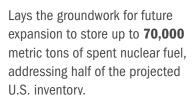
#### **CD-0** Approval



Recognizes the need for a safe, interim storage solution for **15,000** metric tons of spent nuclear fuel.



Initiates three steps to: 1) design, 2) license, and 3) construct the necessary facilities and transportation infrastructure over the next several years.



The final site design and license application, incorporating site-specific characteristics, is not completed until after a consent-based agreement with a host community is finalized.

# What's Next After CD-0 for the Consolidated Interim Storage Facility Project?\*



Slated for completion in **2028**, CD-1 is about selecting the optimal conceptual design, and establishing the cost and schedule range.



Slated for completion in **2031**, CD-2/CD-3\*\* finalizes detailed plans and cost and schedule estimates, and signifies the start of construction.



Slated for completion in **2046**, CD-4 marks the receipt of the first 15,000 metric tons of spent nuclear fuel. Additional storage capacity will be provided by subsequent capital projects.

- \*Schedule is being developed, subject to contract processes and Federal appropriations.
- \*\*Stages combined, per DOE Project Management office guidance.





## **Contact Us**

For more information, please visit the DOE Office of Nuclear Energy Consent-Based Siting webpage at energy.gov/consentbasedsiting.

Or, contact the consent-based siting team at consentbasedsiting@hq.doe.gov or at (301) 903-3301.