

# Hanford Spent Nuclear Fuel Status



Presented by Sen Moy  
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**EM** *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

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# Hanford Spent Nuclear Fuel Status

- K Basins Fuel Removal
- Found Spent Nuclear Fuel
- Other Near-Term Activities



# K Basins Spent Nuclear Fuel

- There are 386 Multi-Canister Overpacks (MCOs) containing K Basins fuel interim stored at the Canister Storage Building (CSB).
- Two additional MCOs required for removal of remaining fuel from K-Basins.
- Contractor and DOE Operational Readiness Reviews completed.
- Contractor proceeding to load, dry, and ship MCOs to the Canister Storage Building planned for the end of FY 2008.



# Found Fuel

- Small quantities of spent fuel discovered during remediation of B, C, D, F, and H Reactor burial grounds. Also, additional found fuel possible during remediation of other burial grounds.
- Currently, found fuel transferred to K Basins for consolidation with other single-pass reactor fuel.
- Upon completion of final MCOs to the CSB, K Basins MCO repackaging capability will cease due to decommissioning activities.



# Found Fuel

- Found fuel would be loaded into Found Fuel Containers, shipped to CSB, evacuated and inerted, and closure welded.
- Found Fuel Containers would then be transferred to 200 Area Interim Storage Area and emplaced in Rad Vault.
- Found fuel would later be repackaged, in the Fuel Preparation Facility, into 18" diameter DOE Standardized Canisters for final disposition
- First shipment forecast around November 2009.



*Left: PAS-1 Cask used for found fuel shipments.*

*Right: Typical Rad Vault used for Found Fuel interim storage.*



# Other Near-Term Activities

- Annual OCRWM QARD Audit for Hanford SNF - September 2008.
- Plateau Remediation Contract effective – October 1, 2008.
  - CHPRC scope includes K Basins, CSB, SNF disposition, and OCRWM QA scope currently managed by Fluor Hanford, Inc.
  - Transition initiated on August 1, 2008, for 60 days.
- MCO license application support

