West Valley Demonstration Project
High Level Waste Canister
Relocation and Storage Project

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Current Work

• WVDP is relocating high level waste from high level waste interim storage in the MPPB to a stand-alone dry cask storage system:
  • 275 HLW canisters
  • 2 evacuated canisters
  • 1 non-routine HLW canister (WV-413)
  • 2 Spent Nuclear Fuel (SNF) debris drums

• Use current licensed SNF shipping cask multi-purpose canister overpacks and current SNF cask designs:
  • 5 HLW canisters per package (55)
  • 3 EC & WV-413 HLW canisters in separate cask
  • Spent Nuclear Fuel Debris in separate cask
HLW Canisters Relocation & Storage Project

Technical Approach

- Canisters moved from CPC to Vit for processing
- MPC placed within shielded cask and moved to VIT
- MPC/Cask loaded
- Remote welding station welds MPC lid (EDR)
- Cask lids secured in LILO and transferred to the HLW Canister Interim Storage Facility
- For final shipment MPC transferred from storage system to transportation cask in currently available deployed technology
- Current SNF commercially available cask will accommodate 5 HLW canisters
- MPC/Cask configuration will be NRC licensed for HLW (CoC)
NAC International (NAC) selected for the High Level Waste Canister Relocation and Storage Project

**NAC Scope**

- The design, fabrication, and delivery of a HLW Storage System
  - 57 overpacks and storage casks
  - Storage Pad
- In-facility transport equipment (optional scope awarded)
- Equipment for transport of loaded storage casks from the LO/LI facility to the storage pad
- MPC lid welding equipment
- Ancillary equipment (e.g. lifting fixtures)
NAC Scope, cont.

- Design, calculations and supporting data for storage system and equipment provided
- Design and specifications of storage pad
- Data and analysis to support CHBWV DOE 10CFR830 DSA
- NRC CoC for HLW Shipping using the NAC-STC
- Transportation from LI/LO of loaded cask to storage pad
- Training and mockup support

Current Activities

- NAC project plan (NAC)
- Design for Storage System - due Nov 30th (NAC)
- Design for Storage Pad (NAC)
- Design for transport system (NAC)
- Reviewed Concrete Storage Cask fabrication activities at Zion (CHBWV)
- RFP for deconning canisters (CHBWV)
Current Activities, cont.

Integration and status of additional work

- CPC crane repair complete (MOD 7)
- CPC waste removal 90% complete (MOD 9)
- EDR waste removal initiated (MOD 7)
- WV-413 work initiated (MOD 15A)
- SNF Debris RCRA (MOD 9)

Advantages of NAC System

- Fully licensed technology
- High capacity production
- Best value
- Smallest footprint
Questions?