West Valley Demonstration Project

*Project Update*

September 26, 2016
2016 Goals

- Excellent Safety Performance
- Complete the High-Level Waste Relocation and Storage Project
- Complete the offsite shipment and disposal of the vitrification components (Melter, CFMT and MHFT)
- Complete demolition preparations in the Extraction Cells area of the Main Plant Process Building (MPPB) and in the Vitrification Facility
- Complete relocation of personnel into new 4-Plex and 10-Plex offices, and re-purposed warehouse
- Complete infrastructure planning and begin reconfiguration for water, electric, communications and natural gas in preparation for demolition activities and personnel relocations
Outstanding Safety Performance - 2016 Goal

As of September 22, 2016, CHBWV and subcontractors worked approximately 2,210,570 work hours (1,417 days) without a lost-time work accident or illness.

Utility Room Asbestos Removal
Complete HLW Canister Relocation - On Target for December 2016 Completion

- 34 Vertical Storage Casks (VSCs) have been loaded and transported to Interim Storage Pad (170 canisters) – 62% Complete
- NAC completed onsite fabrication of VSCs (56 total)

Cure Pad for Vertical Storage Casks (VSCs)

Rebar Installation
High-Level Waste Relocation, cont.

- VSC Relocating from Equipment Decontamination Room (EDR)
- HLW Canister Decontamination
- Loaded VSC Transported on Haul Path
- 29th VSC on the Storage Pad
Legacy Waste Accomplishments

Ship Vitrification Components for permanent disposal – Late 2016

- Shipment of Vitrification Melter, Concentrator Feed Makeup Tank (CFMT) and Melter Feed Hold Tank (MFHT)
  - MHF Logistics (MHF), Waste Control Specialists (WCS) and CHBWV walk-down site upgrades and measure melter package with impact limiter installed – mid-October
  - MHF begins mobilization onsite and assembles equipment – late October
  - MHF begins loading three heavy, low-level waste packages onto heavy haul trailers for transport to Blasdell, NY (35 miles north of the site)
  - Low-level waste packages loaded on a Special Railcar for transport to Andrews, Texas for permanent disposal – mid-November
Facility Disposition Status

- Vitrification Facility Deactivation – 95% Complete
- Main Plant Process Building Deactivation – 56% Complete
Vitrification Facility (VIT) Deactivation – 95% Complete
• Begin Vit Demolition - March 2017 (Contingent on funding)
• Complete Vit Demolition October 2017, 11 months ahead of schedule (Contingent on funding)
• Step 2 – Complete deactivation and begin demolition of Main Plant Process Building – November 2017

Vitrification Cell Grouting in Progress

Manned Entry to Obtain Radiological Dose Rate Surveys
• 56% of deactivation of Main Plant Process Building cells has been completed

• Demolition planned November 2017

Facility Disposition – Step 2
Demolish Main Plant Process Building
Main Plant Process Building Deactivation Activities

- Extraction Cells – Completed removal of the Temporary Ventilation System
- Analytical Aisle Hot Cells – Completed final decontamination of Sample Storage Cell and Hot Cells 1 through 5; process drain and vent line characterization; final surveys for open air demolition
- Head End Vent (HEV) Cell – Completed removal of duct and demister tank in the MSM Shop; obtained dose rates and performed video inspection on filters; set up mock-up platform and commenced filter removal mockups
- Fuel Receiving and Storage (FRS) – Commenced one time ACM cleanup in FRS

Hot Cell #4
Before and After Decontamination

HEV Filter Housing – Looking Down on Top of Filter
Main Plant Process Building Deactivation Activities

- Liquid Waste Cell (LWC) – Completed piping removal, cutting opening into criticality wall, capping tank openings, and sampling Tank 7D-2 waste water
- Product Purification Cell (PPC) - South – Completed characterization of lower cell walls
- Uranium Product Cell (UPC) – Drained and packaged the waste water from Tanks 5D-15A1, 5D-15A2, and 5D-15B
- Utility Room (UR) – Completed Asbestos-Containing Material (ACM) removal on the east half and roof pipe chase; continuing on west half
Accomplishments

• Demolished 19 of 51 site facilities (37%)
• Completed planning and engineering for electrical isolation of Vitrification Facility.
• Selected bidder for new Communications Data Center
• Completed final design for new potable water system

Look Ahead

• Continue site reconfiguration and utility system reroutes (electrical, natural gas, IT) to position site for future D&D
• Continue Warehouse reconfiguration – Reduce storage footprint and increase office/break room space
### 2017 Goals

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<th>Goal</th>
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<tr>
<td>• Complete High-Level Waste Relocation and Storage Project</td>
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<tr>
<td>• Complete relocation of legacy waste from Main Plant Process Building (Head-End Cell drums)</td>
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<td>• Begin demolition of Vitrification Facility March 2017 (Contingent on funding)</td>
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