

West Valley Demonstration Project Phase I Decommissioning Update Quarterly Public Meeting

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One Project. One Team. One Goal.



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Deactivation Continues

Main Plant Process Building

- Completed asbestos abatement of Radio/Analytical Chemical Lab, Analytical Decon Aisle, & North Aisle
- Continued asbestos abatement in Plant Office and Laundry
- Removed 2,000 linear feet of piping in Liquid Waste Cell
- Completed Lower Extraction Aisle Deactivation
- Commenced Upper Warm Aisle Deactivation

Vitrification Facility

- Vit Cell down draft table size reduced and loaded out
- Completed deactivation of Vit Facility aisles



ACM Abatement in Analytical Aisle



Vit Cell Down Draft Table Load Out



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01-14 Building Status



**01-14 Building Start of Demo
Step 1**

Originally constructed for acid fractionator cell, off-gas treatment cell, iodine removal equipment. WVDP retrofitted facility to support stabilization of treated supernatant into cement drums.



**01-14 Building
Step 2**



**01-14 Building
Step 3**

Step 3: Portion of building demolition completed safely and compliantly (Removed re-heaters, off-gas piping, off-gas filter housing, miscellaneous piping from cells and waste load out of internal components)



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Balance of Site Facilities Accomplishments

- Completed waste load out of the Vit Fabrication Shop, Old Warehouse Foundations, and Counting Lab slabs
- Ready to initiate deactivation and demolition
 - Vit Diesel Fuel Oil Storage Pad
 - Cooling Tower
 - Con Ed Building

Waste load out of
Old Warehouse foundations



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Waste Shipping

Legacy Waste

- 47,495 ft³ legacy shipped to date

New Generation Waste Shipments

- 65,135 ft³ construction debris industrial waste
- 23,471 ft³ LLW (18,550 ft³ Building 01-14)
- 314 ft³ Hazardous/Mixed Low Level Waste (MLLW)

Remote-Handled Waste Facility (RHWF)

- Dissolver 3C-2
 - Processing is complete
 - Packaging LLW is complete



Loading LLW Shipment in LSA 3



Preparing Intermodals for D&D Activities and Loading of Newly Generated LLW



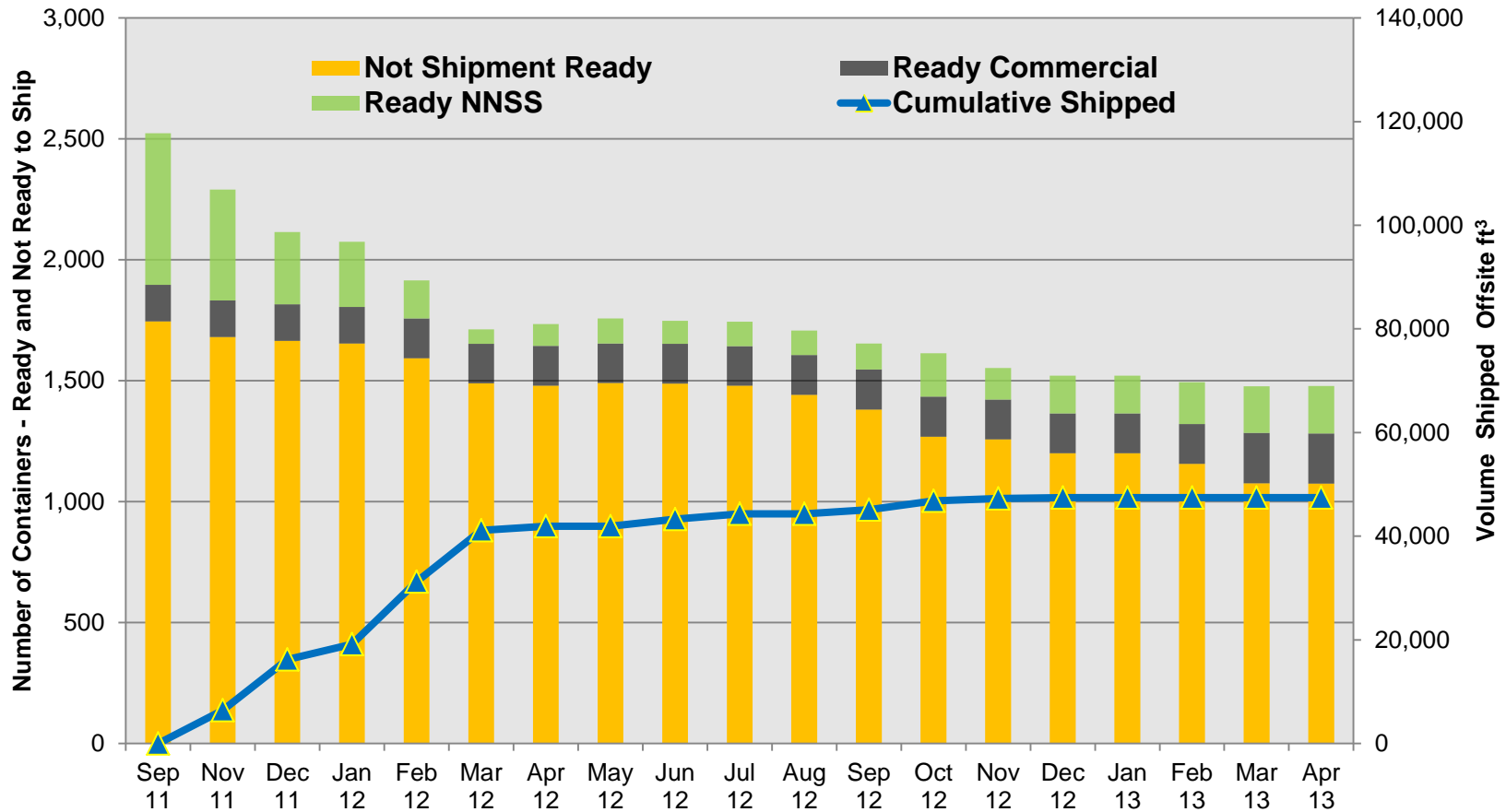
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Waste Operations & Nuclear Materials Legacy Snapshot

Milestone #2 Legacy Waste Shipping Status



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Permeable Treatment Wall (PTW) Background

- PTW designed to limit further migration of Sr-90 beyond the project premises (20 year design life)
- PTW Installation - Completed November 2010
- Monitoring System includes 66 new wells, and 22 previously existing wells
- Monitoring Activities:
 - Baseline sampling and monitoring – January 2011
 - Monthly visual inspections
 - Monthly hydraulic monitoring
 - Quarterly sampling and monitoring conducted since installation, with annual roll-up of data



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Permeable Treatment Wall Update

- PTW does not significantly alter groundwater flow conditions on the North Plateau
- Sampling continues to indicate effective removal of Sr-90 from groundwater
- Functional design requirements continue to be met
- On- and off-site surface water monitoring continues
- Sr-90 levels are indistinguishable from background at Cattaraugus Creek



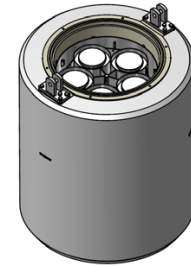
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HLW Canister Relocation & Storage Project

- Relocate 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

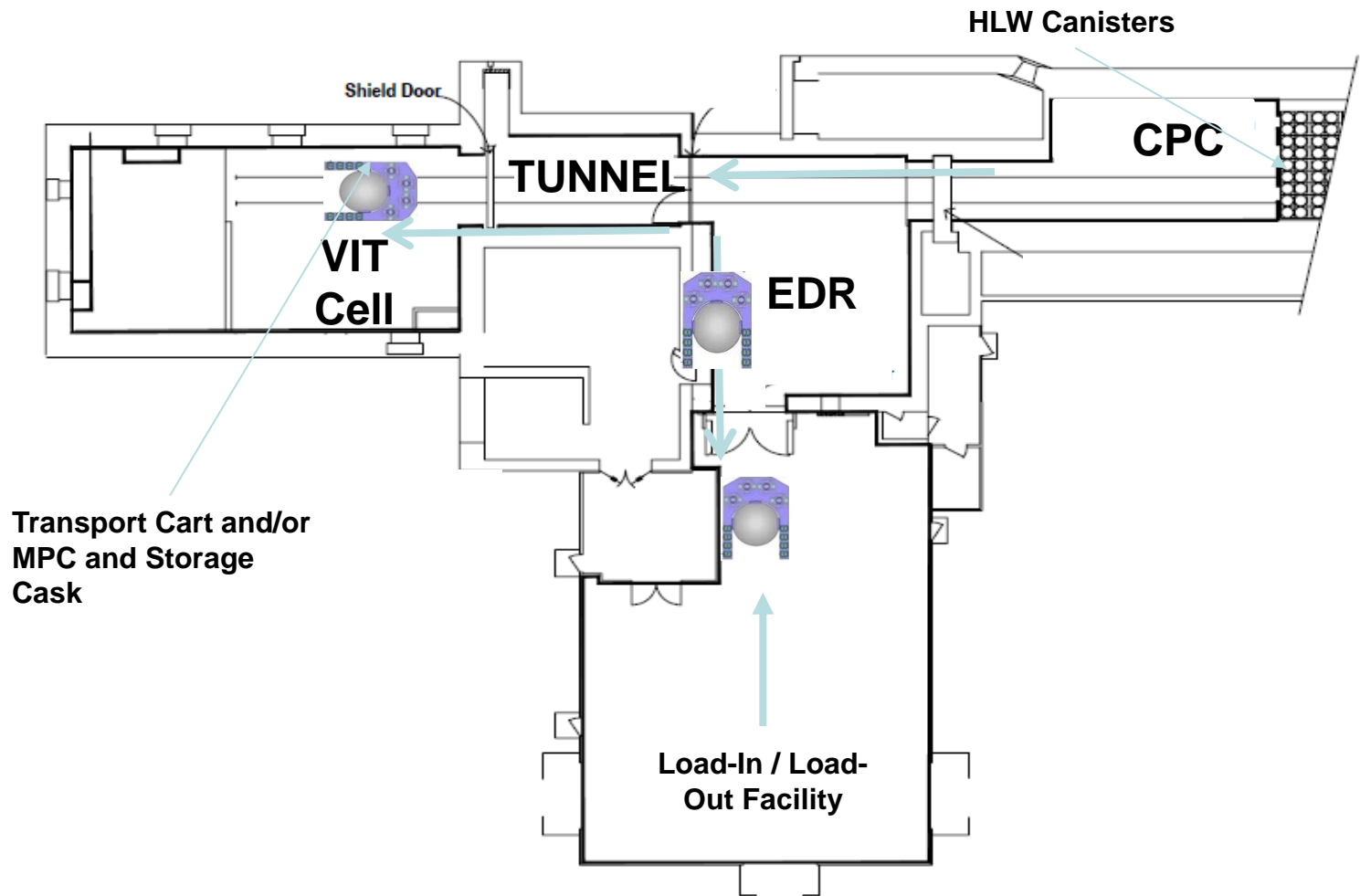


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HLW Canisters Relocation & Storage Project



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HLW Transport to Storage Pad

HLW Vertical Storage Design



GT-50 and Cask A-Frame Transporter



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High Level Waste Storage Project



Soil Boring Operations

- Completed 27 core borings for evaluating haul path for canisters (Completion set for August 2013)
- Temporary and permanent storm water drainage methods have been selected for Canister Storage Slab
- Finalized siting of NAC's fabrication pad for the vertical concrete casks



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Look Ahead

Milestone 1: Complete high-level waste (HLW) canister relocation

Storage Pad Design

Early summer

Milestone 2: Process, ship and dispose of all legacy waste off-site

Initiate processing of 243 high moisture cement drums in preparation for shipment

October

Milestone 3: Demolition and removal of the Main Plant Process Building and the Vitrification Facility

Complete Vitrification Cell equipment clean out

September

Complete removal of all asbestos containing materials from the laboratories, laundry and MPPB office areas

April-
September

Milestone 4: Complete all work described in the Performance Work Statement

Complete 01-14 Building demolition

May

Restoration of Balance of Site Facilities (Foundations of Old Warehouse, Count Lab, Waste Test Facility, vitrification diesel oil storage pad)

July



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Questions?



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