



U.S. DEPARTMENT OF
ENERGY

OFFICE OF
**ENVIRONMENTAL
MANAGEMENT**

CH2M HILL B&W West Valley Project Update

Daniel Coyne, President and General Manager
Quarterly Public Meeting

CH2M HILL B&W West Valley

May 28, 2014

Milestone 1 – High-Level Waste Project Storage Pad



Main Pad

144 feet by 110 feet by 3-foot-thick

33 tons of reinforcing steel,
1,800 cubic yards of concrete

Approach Apron

98 feet by 170 feet by 18-inch thick

110 tons of reinforcing steel,
935 cubic yards of concrete

In Progress

- Hydro-Seeding
- Cameras installed
- Storm Water Pollution Prevention Controls
- Closure Packages (Completed 4 out of 14)

Milestone 1 – High-Level Waste Project Construction Activities



Cask Liners Being Fabricated



8 Add'l Vertical Storage Casks (VSCs) Being
Constructed



Overpacks Being Fabricated

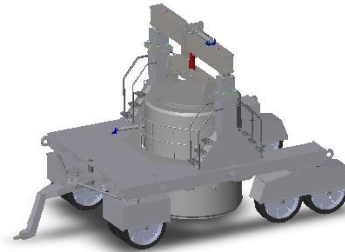
Milestone 1 – High-Level Waste Project Progress Continues



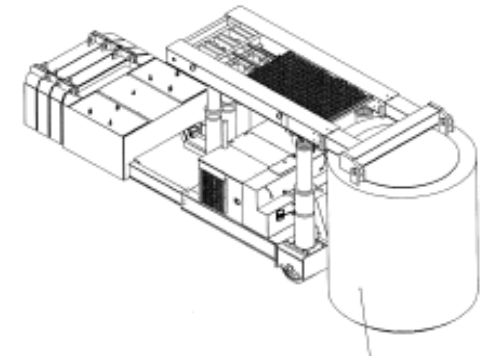
Onsite and Tested



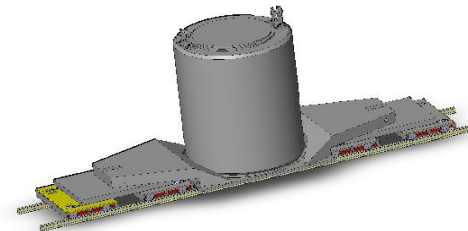
Vertical Cask Transporter
Fabrication



Vertical Cask Transporter - 100%
Load Testing June 23
Delivery on June 30



TL220 – 25%
September Delivery



Low Profile Rail Cart – 5%
November Delivery

Milestone 1 – HLW Storage Accomplishments



**Automatic Welding System
100% Complete**



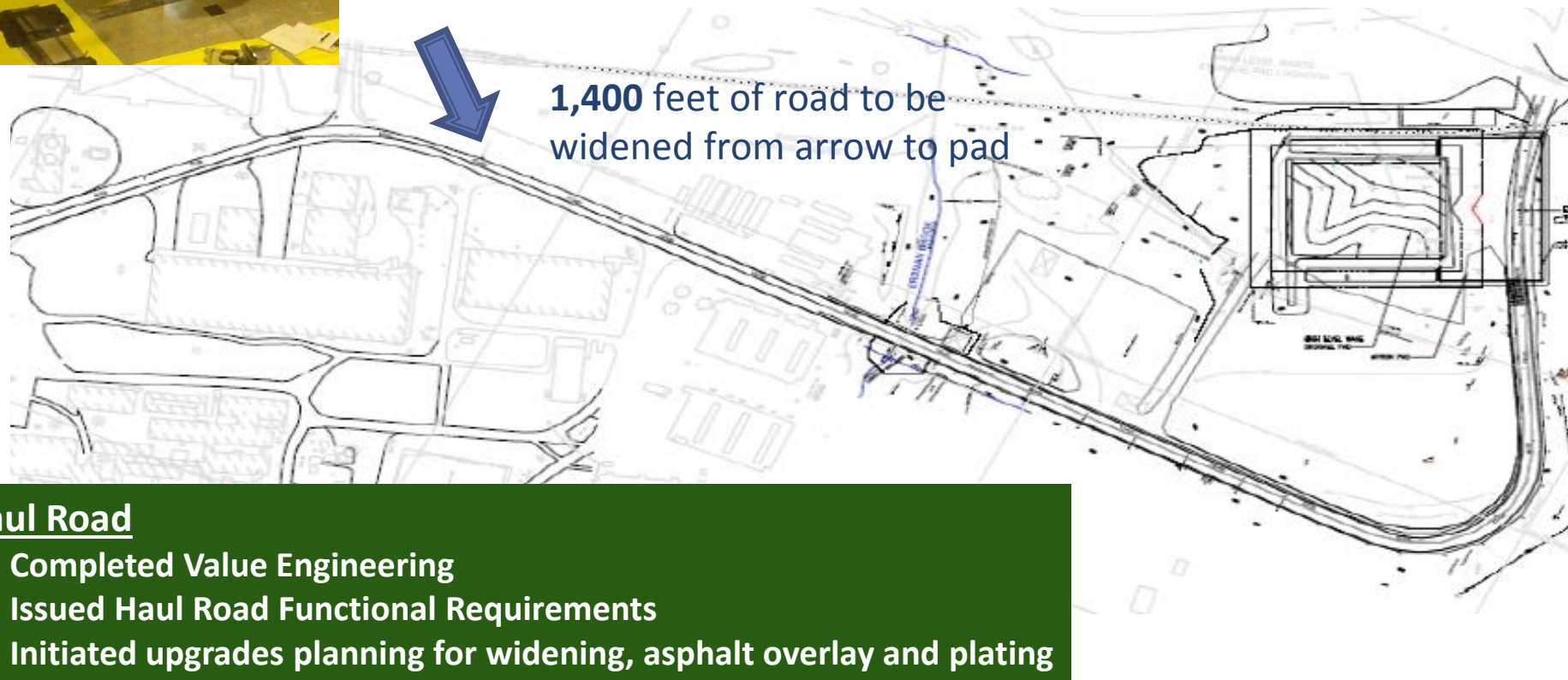
**Removed 2nd and 3rd sets of
Test Plates**

- Weld testing and qualification scheduled for June and July
- Canister Decon Phase II Test Report complete – Modified wet/dry microfiber technique selected
- Developing decontamination design concept – Prototype being fabricated
- Received Equipment Decontamination Room (EDR) subsurface grouting plan – Peer review initiated

Milestone 1 – HLW Storage Accomplishments



Engineering Recommendation
Received for Floor Modifications in
the Equipment Decontamination
Room



1,400 feet of road to be
widened from arrow to pad

Haul Road

- Completed Value Engineering
- Issued Haul Road Functional Requirements
- Initiated upgrades planning for widening, asphalt overlay and plating

Milestone 2 – Waste Operations Accomplishments

Legacy Waste Disposition Status through April 2014

- Approximately 140,000 ft³ in storage at start of contract
- Processed and shipped ~77,000 ft³ for disposal to date
 - Low-Level Waste (LLW): 53% complete (70,842 ft³)
 - Mixed Low-Level Waste (MLLW): 79% complete (5,000 ft³)
 - Industrial: 100% complete (984 ft³)
 - Hazardous: 100% complete (163 ft³)
 - 84 shipments to date
- Legacy MLLW Shipped in April
 - 1 Shipment – EnergySolutions – Bear Creek
 - 8 ft³ Legacy MLLW (1 – 55-gallon drum)
- Waste package categorization for the Vitrification Melter, Concentrator Feed Make-up Tank (CFMT) and Makeup Feed Hold Tank (MFHT) will be undergoing NRC and DOT review in the coming months



Lag Storage Facility Before and
After 2013 Shipping Campaign

Legacy LLW and MLLW Disposition

- Repackaging in the Waste Processing Area (WPA)
 - None planned for April 2014
 - Completed 56 out of 57 containers since start of fiscal year
- Repackaging in Remote-Handled Waste Facility (RHWF)
 - Completed 12 of 21* containers since start of fiscal year
 - Completed 3 in April 2014
 - Inspected 1 of 3 filter boxes



Repackaging LLW
in Waste Processing Area

TRU Waste Disposition

- Completed removal of 80 RH-TRU drums and all stackers from the Chemical Process Cell
- Comments on the first draft of the Waste Isolation Pilot Plant 2014 Annual Update to the TRU Waste Inventory Report were received and resolved

*The number of containers will increase as additional waste is identified.



Repackaging Legacy LLW in the WPA

Milestone 3 – Facility Disposition

Main Plant Process Building Deactivation Activities

- Liquid Waste Cell – Completed Raschig ring removal from Tank 13D-8
- Plant Office – Completed Asbestos-Containing Material (ACM) Removal from the First and Second Floors
- Analytical Aisle – Completed Sample Storage Cell (SSC) surveys and tent and hoist installation; Removed inoperable manipulators from the Hot Cell
- Extraction Cell (XC) – 1 – Returned equipment to service



Manipulator Removal Analytical Hot Cells



Roughing Filter Changeout

Milestone 3 – Facility Disposition

Vitrification Facility Deactivation Activities

- Vitrification Cell – Vacuum floor debris and waste loadout



**Master Slave Manipulator (MSM)
Replacement**



Vit Cell Equipment Pit after Vacuuming



Main Floor after Vacuuming

Milestone 4 – Balance of Site Facilities Accomplishments

- Site Restoration – Unscreened top soil at Environmental Laboratory (E-Lab), Vit Fabrication Shop, Waste Tank Farm (WTF) Test Tower, and T-FS-04 Building
- Con-Ed Building – Deactivation



Vit Fabrication Shop Restoration



Con-Ed Building Lead Removal

Milestone 4 – Waste Operations Accomplishments

Newly Generated (generated as a result of current activities)

- Contract-to-date shipping status through April 2014
 - Industrial Waste 150,546 ft³
 - Hazardous/Universal Waste 472 ft³
 - LLW 114,933ft³
 - MLLW 991 ft³
 - 195 BOSF Shipments



Newly Generated Waste Packaging

Milestone 4 – Site Operations Accomplishments

General Site Maintenance

- Continued to remove excess property through the Property Management System
 - Enables cost avoidance and CHBWW commitment to DOE's Green Initiative
 - Completed Tank 32D-1 heating installation



**Installation of Heating System for
Tank 32D-1 in Fire Pump House**



**Fifteen 55-Gallon Drums of Oil and Eight 5-Gallon
Buckets of Polyglycol were Excessed
from Downsizing the Lube Locker**

Milestone 4 – Site Operations Accomplishments

Well Installation

- Completed all performance checks (e.g., static level check, 72-hour pump test) on Well 1 and received acceptable analytical results on water quality
- Completed drilling Well 2 and initiated performance checks depth 110 feet producing 50 gallons of water per minute



Drilling New Site Groundwater Well 2



Drilling New Site Groundwater Well 1

Questions?