

West Valley Demonstration Project



Project Update

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Citizen Task Force



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20475_1

Safety Performance



- As of February 19, 2010, WVDP employees have worked more than 2.3 million hours without a lost-time accident or illness
- A first aid injury that occurred on January 13 has been reclassified as a restricted case and recordable injury due to the need for surgery on the forearm of the injured individual
- First Aids
 - Maintenance mechanic received an abrasion to the tip of the left index finger when the particle board he was cutting on a table saw kicked back (Feb 10)
 - Waste handling operator received a small cut to the left thumb while cutting sleeving (Feb 16)
- TRC is 0.2 and the DART is 0.2



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Project Update: Main Plant Process Building (MPPB)

- Extraction Cell-1
 - Last Extraction Cell to be D&D'd
 - Extended monorail to be able to bring D&D equipment into the Extraction Aisle in preparation for decontamination
 - All in-cell work will be performed remotely



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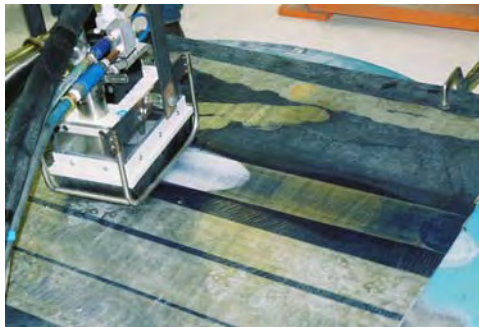
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Project Update: Main Plant Process Building (MPPB)

- Head End Cells
 - Completing final preparations for remote deployment of Nitrocision® tooling in Process Mechanical Cell
 - -300° F
 - 55,000 psi
 - 90% capture rate

Nitrocision Demo



10/07/2009



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Project Update: Main Plant Process Building (MPPB)

- ARRA Work
 - Three Cold & Dark crews – 20 specialized operators – are working to remove piping, asbestos, ventilation systems, etc



Main Plant Control Room, before and after control panel and ventilation removal



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Project Update: Main Plant Process Building (MPPB)

- ARRA Work
 - Cold & Dark crews – 20 specialized operators – are working to remove piping, asbestos, ventilation systems, etc



LWTS racks prior to being electrically isolated

LWTS racks after isolation and conduit removal



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Project Update: Main Plant Liquids Solidification

- Preliminary review from surrogate liquid solidification trials has been received with positive metals stabilization results
 - Initiated seven-day cure testing
- Review of equipment and installation drawings is underway; scheduled to be completed by Feb 25
- Inspecting and repairing equipment used in Sodium Bearing Waste campaign, for reuse where possible



The photo at right shows the Water Treatment Area within the Fuel Receiving and Storage building – that will house the IP-2 containers as they are filled with liquid waste and solidified.



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Project Update: Tank & Vault Drying

ARRA Work

- Conducted final design review for drying system (Feb 22)
 - The system is scheduled for installation in 2010 to mitigate high moisture levels in the underground waste tanks and surrounding vaults
- Installed temporary ventilation lines from the Permanent Ventilation System (PVS) inlet plenum to various tanks
- Initiating mockup operations for removal of highly contaminated 16-inch diameter underground ventilation piping from Tank Farm



PVS inlet plenum



Temporary ventilation ducting placed into Tank 8D-1 M-7 Riser



Temporary lines will provide ventilation while old lines are replaced



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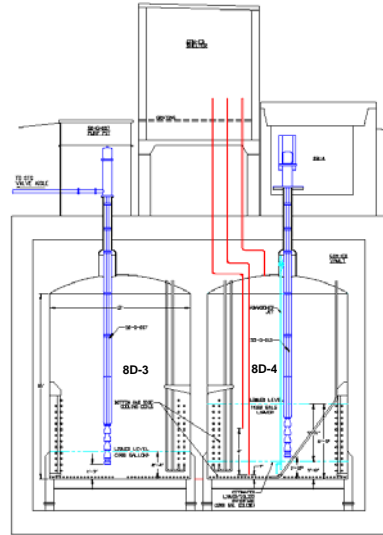
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Project Update: Tank & Vault Drying

ARRA Work

- Tank 8D-4 Liquid Removal
 - Sampled Tank 8D-4 liquid in January
 - On-site lab analyses confirmed lower than expected Cs-137 content (800 curies versus 14,000 curies)
 - Portion of sample shipped on February 17 to off-site lab for more extensive analyses
 - Decontamination of 8D-4 liquid and subsequent solidification placed on hold until thorough review of sample analyses
 - Proceeding with preparations to remove transfer pump and steam jet from tank to allow for more extensive internal tank characterization through the tank riser



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Project Update: Waste Management

- Waste Processing Statistics as of January 31, 2010
 - Processed 71,421 ft³ of legacy (stored) low-level waste (LLW) (*not ARRA*)
 - Processed 35,897 ft³ of Transuranic waste
 - Disposed of 48,504 ft³ of LLW

ARRA Work

- First shipment of ARRA waste left West Valley Feb 23, headed for Energy Solutions in Clive, UT
- Newly-generated waste from Main Plant D&D that included contaminated piping, switches, controls and general debris
 - Includes 400 linear feet of piping that was removed in one day
 - Debris was placed into 14 boxes and shipped on one truck
 - Disposed of 1,400 ft³ of LLW waste



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Project Update: Sr-90 Plume Mitigation

- 34 borings taken along proposed PTW alignment to determine how depth of the unweathered clay layer (till)



A rad tech surveys the core boring to check for Sr-90 contamination



Specialized drillers remove 4' long sections of soil, to determine depth of till

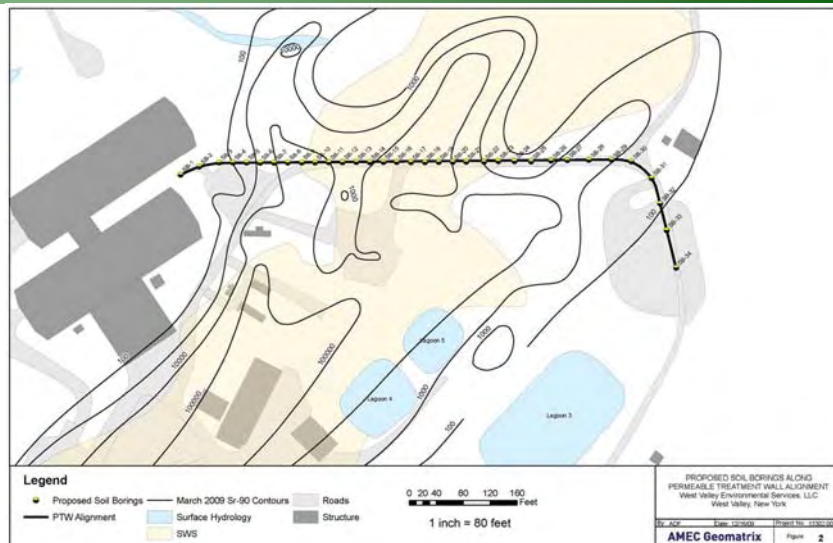


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Project Update: Sr-90 Plume Mitigation



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Ground Level Offices (GLO)

- 52 GLOs on site
 - 124 employees occupy 34 GLOs
 - 31 office units, 2 locker units and 1 laundry distribution unit
 - 8 additional office GLOs ready for occupancy
- 5 Maintenance GLOs ready for occupancy during first week of March
- 3 office GLOs and 2 additional maintenance GLOs need to be placed and prepared for occupancy



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Other News

- Record of Decision (ROD) on the Decommissioning and/or Long-Term Stewardship at the West Valley Demonstration Project and Western New York Nuclear Service Center
- NRC Technical Evaluation Report (TER)
- Characterization Sampling and Analysis Plan (CSAP) submitted to NRC Feb 5, 2010
 - Available for public viewing at www.wv.doe.gov
 - Click on "Phase 1 Decommissioning Plan"
 - Scroll down to "CSAP"
- DOE Solicitations
- 2011 Budget



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