

West Valley Demonstration Project



Project Update

Bryan Bower, DOE Director
 September 23, 2009
 West Valley Citizen Task Force Meeting



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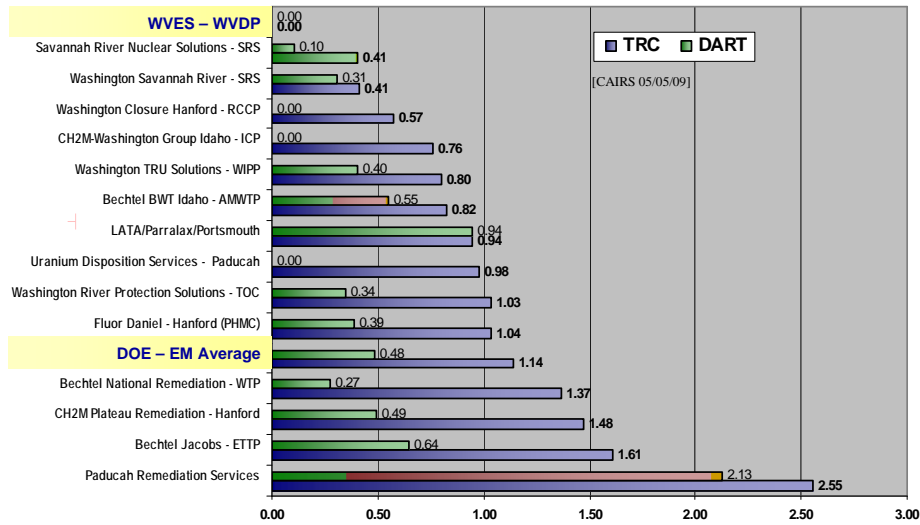
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Safety Performance

DOE-EM Prime Contractor Safety Ranking

First Half FY09 Including Subcontractors (Ranked by TRC Rate)



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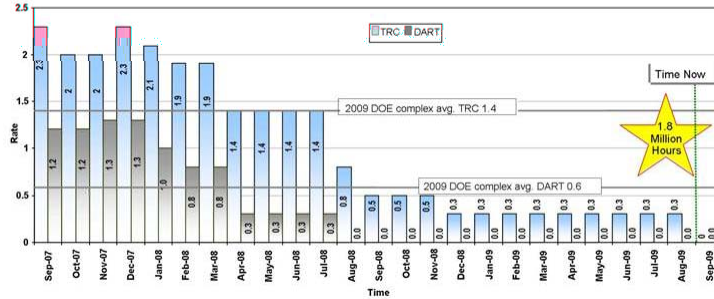
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WVDP Safety Status

WVDP Site Safety Performance

Safety Performance Based on 12-Month Rolling Average



Current Status: Total Recordable Case (TRC) Rate: 0.0
 Current Status: Days Away, Restricted, Transferred (DART): 0.0

2 years, 5 months without a lost-time work injury
 1.8 million hours without a lost-time work injury
 1 year without a recordable injury



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August Rain Event

- Aug 9 and 10
 - Several inches of rain fell during two separate storm events
- Minimal impacts on WVDP facilities
 - Culvert pipe under roadway leading to NDA plugged and eroded
 - Minor erosion on non-paved roadways
 - All areas have been repaired
 - Plugged laundry discharge line
 - May or may not have been related to the storm
- WNYNSC Lakes and Dams
 - High water levels and some surface erosion
 - Cleared brush and cut grass on face of dams to aid dam face inspections
 - Performing weekly dam/spillway inspections
 - NYSDEC performing on-site dam safety inspection



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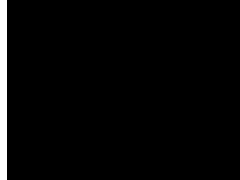
Project Update

- Recent accomplishments in the Main Plant

- Hot Acid Cell
 - Two large vessels removed
- Acid Recovery Cell
 - Final piping removal in progress
- Extraction Cell - 3
 - 70% of the piping and vessels removed thus far



Two vessels were removed from the Hot Acid Cell, immediately packaged, and disposed within two weeks



One of the last remaining in-cell vessels in the Acid Recovery Cell is prepared for size-reduction



Operators remove a vessel from Extraction Cell - 3



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Project Update

- Main Plant Process Building (cont)

- Hot Acid Cell Vessel Removal
 - Vessels isolated and exteriors decontaminated.
 - Cell access established through an exterior wall adjacent to the Main Plant Office Building roof
 - Vessels were removed and packaged in one day
 - Access hole cut in the cell wall, vessels moved onto roof, picked up by a mobile crane, and lowered on to waiting flatbed truck
 - On the truck, the vessels were encased in IP-1 bags suitable for off-site shipment and disposal



Workers prepare to remove the vessels



One of the vessels is lowered to the truck below



The packaged vessels are ready for off-site shipment



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Project Update

- Main Plant Process Building (cont)
 - Acid Recovery Cell
 - Significant in-cell asbestos activities complete
 - Completed in-cell plasma cutting to size reduce vessels
 - Removal of remaining process piping and remaining debris
 - Applying fixative
 - Mid-October completion



Debris cleanup and removal of tank pieces from the Acid Recovery Cell are in progress.



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Project Update

- Main Plant Process Building (cont)
 - Extraction Cell - 3
 - Contained piping and 12 vessels for the Liquid Waste Treatment System
 - Limited access through roof hatch and man door
 - Top-down dismantlement strategy using man lifts suspended from a gantry crane
 - Approximately 70% of the equipment now removed



A computerized drawing that depicts the vessels and piping remaining in XC-3 as of late August. The vessels colored in yellow were removed in early September.



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Project Update

Waste Processing

- As of August 31, processed
 - 69,928 cubic feet of legacy (stored) low-level waste (LLW)
 - 33,068 cubic feet of TRU waste
- Two remote waste processing areas in operation
 - Remote Handled Waste Facility
 - Vitrification Facility
- Two Contact Handled facilities
 - Container Sorting and Packaging Facility (CSPF)
 - Waste Processing Area



Remote waste processing in the Remote Handled Waste Facility



Contact-handled waste processing in the CSPF is focused on transuranic (TRU) waste



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Project Update

- HLW Tank and Vault Drying
 - Awarded contract for design and installation of tank and vault drying system
 - Preparing for pump removal from 8D-4
 - Preparing to erect weather shelter over 8D-3 and 8D-4



Weather shelter frame



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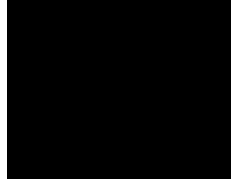
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Project Update

- North Plateau Groundwater Plume Mitigation
 - Continuing preliminary PTW design
 - Conducted geophysical study
 - Electromagnetic
 - Radar
 - Evaluating trencher capabilities and zeolite material



Geophysical studies of the NP area were conducted



Trencher capabilities are being evaluated



Zeolite material is being evaluated for the PTW



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- Railroad Repair
 - Fox Valley Road landslide area repair nearing completion
 - Additional work needed after August 9-10 rainstorms
 - Drainage enhancements added to improve bank stability
 - Track to be installed in the next few weeks



August 10



August 25



September 15



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Lives Touched by Recovery Act



- Newly Hired WVES Employees
 - 54 full-time WVES Recovery Act
 - 2 Janitors
 - 12 Site Operations (electrical, mechanical, cold and dark preparations)
 - 19 Main Plant D&D
 - 12 Waste Management Operators
 - 7 Supervisors
 - 2 Professionals
- Additional People Involved in Recovery Act-related activities
 - 13 existing hourly employees
 - 61 existing WVES (technical, administrative, and professionals)
 - 31 subcontractors



The WVDP was able to hire 54 new highly skilled Recovery Act employees since June 2009.



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Project Update

- Revised Draft Environmental Impact Statement
 - Public Comment Period closed September 8, 2009
 - Revised anticipated date for Final EIS: February 2010
 - Revised anticipated date for Record of Decision: March 2010



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