West Valley Demonstration Project

Project Update

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

Safety Performance

DOE-EM Prime Contractor Safety Ranking
First Half FY09 Including Subcontractors ( Ranked by TRC Rate)

<table>
<thead>
<tr>
<th>Contractor</th>
<th>TRC</th>
<th>DART</th>
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<tbody>
<tr>
<td>Savannah River Nuclear Solutions - SRS</td>
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<td>Washington Savannah River - SRS</td>
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<td>Washington Closure Hanford - RCCP</td>
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<td>CH2M/Washington Group Idaho - ICP</td>
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<td>Washington TRU Solutions - WIPP</td>
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<td>Bechtel BMT Idaho - AMWTP</td>
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<td>LATA/Parralax/Portsmouth</td>
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<td>Uranium Disposition Services - Paducah</td>
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<td>Washington River Protection Solutions - TOC</td>
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<td>Fluor Daniel - Hanford (PHMC)</td>
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<td>Paducah Remediation Services</td>
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<td>Bechtel National Remediation - WTP</td>
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<td>CH2M Plateau Remediation - Hanford</td>
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<td>Bechtel Jacobs - ETTP</td>
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<td>Paducah Remediation Services</td>
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<td>DOE – EM Average</td>
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CAIRS 05/05/09
WVDP Safety Status

WVDP Site Safety Performance
Safety Performance Based on 12-Month Rolling Average

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

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
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

- 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 onto waiting flatbed truck
    - On the truck, the vessels were encased in IP-1 bags suitable for off-site shipment and disposal
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.

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.
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

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
Project Update

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

Project Update

• 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
• 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.

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