

# West Valley Demonstration Project



## Project Update

April 28, 2010  
Citizen Task Force

[www.em.doe.gov](http://www.em.doe.gov)

20566\_1



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## Safety Performance



- As of April 19, 2010, WVDP employees have worked more than 2.4 million hours without a lost-time accident or illness
- First Aids
  - An operator received a minor laceration to the right index finger when another employee cut a tag off of an eyebolt with scissors. The operator's finger was cut during this process (March 3)
  - No first aids in April
- TRC is 0.2 and the DART is 0.2



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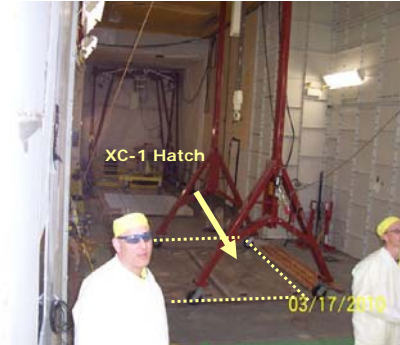
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20566\_2

## Project Update: Main Plant Process Building (MPPB)

- Extraction Cell-1(XC-1)
  - Completed lifting one of two hatches, wrapped and staged
  - Continued core drilling on lower bore from XC-2 into XC-1; broke through stainless steel liner
  - Deploy mechanical arm in May
    - Remove 9 vessels and more than 1 mile of piping



*Bird's Eye View – The ceiling hatches on top of the XC-1 is outlined in this photo.*



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20566\_3

## Project Update: Main Plant Process Building (MPPB)

- Off-Gas Cell
  - Decontamination activities in the Off-Gas Cell in the Main Plant Process Building are approximately 80% complete and are on target for completion in mid-May
- Process Mechanical Cell
  - Using Nitrocision® technology in the Process Mechanical Cell



*Deploying remote-operated scabbler equipment and tooling (above) on the Off-Gas Cell walls (below) will reduce dose rates in the cell.*



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20566\_4

## Project Update: Main Plant Process Building (MPPB)



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



Main Plant Upper Extraction Aisle racks and piping removal



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20566\_5

## Project Update: Asbestos Removal

- Asbestos removal activities are ongoing in multiple areas of MPPB to prepare facility for demolition
  - Removal of asbestos conducted under strict OSHA guidelines
- Elevated air sampler observed outside asbestos work area in late February
  - 4<sup>th</sup> floor area closed off to perform cleanup
  - Cause determined to be asbestos fibers disturbed during work activities
  - Continuing to monitor work areas and “lock down” asbestos fibers that pose an airborne contamination hazard



Operators are suited up in protective gear to perform asbestos abatement



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20566\_6

## Project Update: Tank & Vault Drying



### Ventilation Line Replacement Underway

- Completed test excavations to verify underground line locations
- Removed two of the four 8-inch ventilation lines leading from the condenser to the HLW Tank Farm underground ventilation header; excavation planned to begin in the first week of May
- Received and installed the Rotary Dryer
- Installation of the above-ground ventilation piping began on April 26

Two of the four 8" ventilation lines leading from one of the two condensers that were removed.



The Rotary Dryer, pictured above, is designed to filter the air and reduce humidity levels in the Tank Farm underground vaults and tanks.



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20566\_7

## Project Update: Waste Management

- Waste Processing Statistics as of March 31, 2010
  - Processed 71,939 ft<sup>3</sup> of legacy (stored) low-level waste (LLW) (not ARRA)
  - Processed 38,835 ft<sup>3</sup> of Transuranic waste
  - Disposed of 47,079 ft<sup>3</sup> of LLW

### ARRA Work

- Completed two shipments to Energy Solutions of newly-generated LLW resulting from MPPB deactivation and decontamination for offsite disposal under ARRA
  - 28 waste boxes
  - 2,800 ft<sup>3</sup> of LLW



**Contact-handled success** – Three "slab tanks" that posed a potential risk from airborne contamination were safely processed in one of the WVDP's contact-handled facilities.



**Robotic Tooling** – A Brokk®, pictured in the foreground below, is being used in the VF for waste processing. It can hold a saw or various other tools for remote work.



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20566\_8

## Project Update: Sr-90 Plume Mitigation



**One Pass Trencher** – A trencher capable of excavating and backfilling the trench in a continuous motion will be used to construct the PTW.

Now – June / July

- Procurements**
- Zeolite
  - Trencher
  - General (construction) contractor

May / June

- Well decommissioning**

July / Aug

- Site preparation**

Sept / Oct

- PTW installation**
- Includes capping, general cleanup

Nov / Dec

- Monitoring well installation**



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20566\_9

## Other News

- DOE issued the 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
- DOE Solicitations



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20566\_10