



# Weekly Progress



AMERICAN RECOVERY & REINVESTMENT ACT

Week Ending Jan. 7, 2011



CHPRC-01162

Contract DE-AC06-08RL14788  
Modification MO47

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## OVERVIEW

CH2M HILL Plateau Remediation Company (CHPRC) is using funds from the American Recovery and Reinvestment Act (Recovery Act) to put people to work and accelerate critical environmental cleanup across the Central Plateau and the 100K Area along the Columbia River to help pursue the U.S. Department of Energy (DOE) “2015 Vision” to shrink the Hanford Site cleanup footprint.

### RL-0011 PLUTONIUM FINISHING PLANT D&D

CHPRC is accelerating critical decontamination and decommissioning work to cleanout and prepare the Plutonium Finishing Plant (PFP) for demolition by 2013, three years ahead of the Tri-Party Agreement milestone of September 2016.

### RL-0013 SOLID WASTE STABILIZATION & DISPOSITION

CHPRC is accelerating cleanup of Hanford’s legacy waste and fuels, including retrieving, repackaging, and shipping transuranic (TRU) waste and shipping mixed low-level waste (MLLW) and low-level waste (LLW) for treatment and/or disposal.

### RL-0030 SOIL & GROUNDWATER REMEDIATION

In the ongoing effort to protect the Columbia River, CHPRC is constructing two groundwater treatment facilities; installing 265 wells for monitoring, extracting, and remediating groundwater; and decommissioning 280 wells that are no longer of service.

### RL-0040 NUCLEAR FACILITY D&D REMAINDER OF HANFORD

Across the Central Plateau and along the outer zone of the Hanford Site, CHPRC is remediating 24 waste sites and decommissioning and demolishing (D&D) 34 facilities to reduce mortgage, surveillance, and maintenance costs on buildings that are no longer of service. The scope also includes cleanup along the outermost edges of the Hanford Site at the Arid Lands Ecology (ALE) Reserve and North Slope, preparing the U Plant for a first-of-its-kind canyon demolition, and preparing to disposition radioactive railcars in the 200 North Area.

### RL-0041 100K AREA REMEDIATION

CHPRC is demolishing 15 reactor support facilities and sampling and/or remediating 23 waste sites to shrink the cleanup footprint of two reactors, K East and K West, located in the 100K Area along the Columbia River.

## For More Information

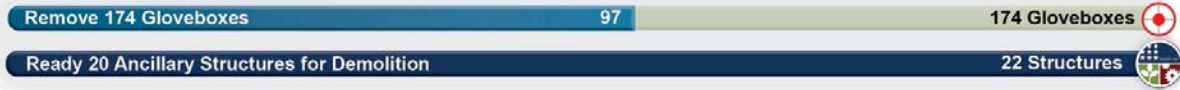
To find out more about Recovery Act progress at the Hanford Site, visit [www.hanford.gov/recovery](http://www.hanford.gov/recovery).

For information about CHPRC, including weekly Recovery Act newsletters and videos, visit [www.plateauremediation.hanford.gov](http://www.plateauremediation.hanford.gov) or contact [chprcc@rl.gov](mailto:chprcc@rl.gov).

## SUMMARY

The following chart outlines CHPRC’s progress on its main Recovery Act work goals. Progress on subprojects and other Recovery Act-funded activities are detailed throughout this report and accompanied by a short progress video available on [www.youtube.com/hanfordplateau](http://www.youtube.com/hanfordplateau).

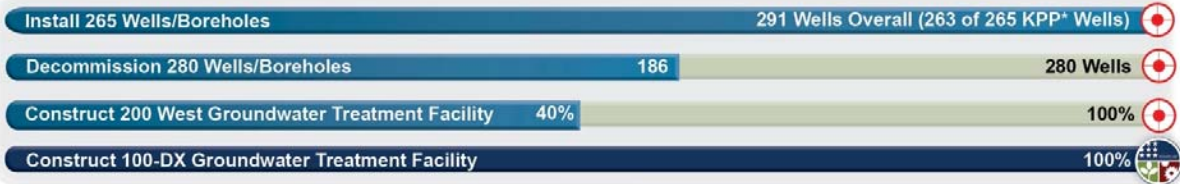
### PLUTONIUM FINISHING PLANT D&D



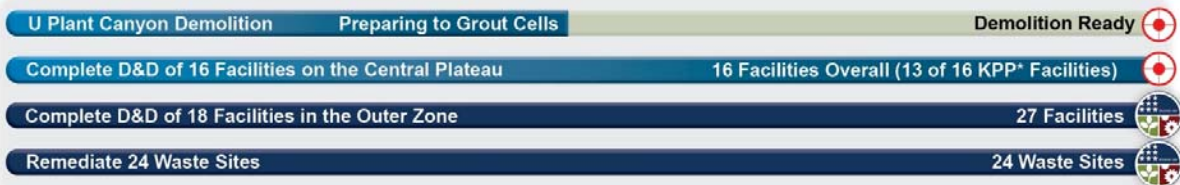
### SOLID WASTE STABILIZATION & DISPOSITION



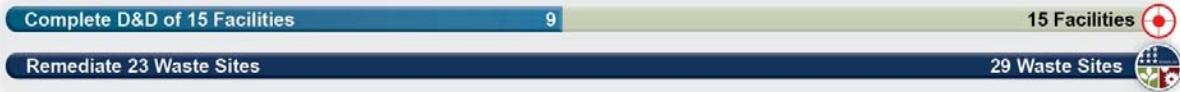
### SOIL & GROUNDWATER REMEDIATION



### NUCLEAR FACILITY D&D



### 100K AREA REMEDIATION



\*Key Performance Parameters (KPP) are specific items (wells, buildings, etc.) included in the Target. "Overall" indicates the total number completed with Recovery Act funds. "Completed" marks that CH2M HILL has completed a KPP.

## ACCOMPLISHMENTS

### RL-0011 Nuclear Materials Stabilization & Disposition

RL-0011.R1: Plutonium Finishing Plant D&D

ACTIVITY	PFP WASTE REMOVAL & DISPOSITION	
	<i>Week of Jan. 7, 2011</i>	<i>Complete to Date with Recovery Act funding</i>
Gloveboxes/hoods removed	1 glovebox	97 gloveboxes/hoods
MLLW/LLW shipped	7 m <sup>3</sup>	2,318 m <sup>3</sup>
TRU shipped	-	361 m <sup>3</sup>
Non-radioactive waste shipped	-	23 m <sup>3</sup>
Process transfer line removed	1 foot	346 feet
Process vacuum system piping removed	18 feet	590 feet
Asbestos removed	173 feet	12,617 feet

#### *Process and Laboratory Areas*

Thirty experienced staff have been transferred from other CHPRC projects to PFP to accelerate schedule recovery in preparing the process and laboratory areas for demolition, in accordance with Key Performance Parameter 1 of sub-project RL-011.R1. This includes 20 nuclear chemical operators, 8 radiological control technicians, and 2 field work supervisors.

Glovebox 143-5 was removed from the Analytical Laboratory. In the Plutonium Process Support Laboratory, a doorway was enlarged and glovebox 179-5 was removed from room 183.

In the RMA Line, large glovebox HA-20MB was isolated from the HA-28 conveyor and from building ventilation, and it has been relocated within room 235B. The glovebox is ready for size reduction but cannot be removed from the room at this time because it is too large to pass by another large glovebox in the room. Two other gloveboxes, HA-22 and HA-21I, and two sections of the 70-foot-long HA-28 conveyor are also awaiting relocation to other rooms while awaiting size reduction. Also in the RMA Line, preparations were completed to isolate and disconnect the third section of the HA-28 conveyor. The first round of chemical decontamination with RadPro® was completed on glovebox HA-46.





*Glovebox 179-5 is loaded for shipment after being removed from the Plutonium Process Support Laboratory area at the Plutonium Finishing Plant.*

Photo 1



Photo 2

Glovebox HA-20MB was removed from building ventilation this week in preparation for removal from a room in the Plutonium Finishing Plant.

#### 2736-Z/ZB Vault Complex

Four large furnaces were removed from glovebox 642-B, the next to last of nine gloveboxes in 2736-ZB, the former vault support facility. Lead removal was completed from the former non-destructive assay (NDA) laboratory in room 637, and preparations were initiated to begin removing ventilation exhaust filters throughout the facility, beginning in room 636.



Photo 3

*Glovebox 642C from the 2736-Z/ZB Facility was loaded onto a flatbed truck and driven to the loading area at the Plutonium Finishing Plant, where it was placed into a shipping container.*

#### *242-Z Americium Recovery Facility*

The field work team successfully completed presentation of their plan and work documents for D&D of glovebox WT-2 to the Hazards Review Board, and they began finalizing their planning for gloveboxes WT-3, -4, and -5. Based on inspections and characterization data obtained earlier, the planned sequence for removal was modified, with gloveboxes 4 and 5 to be removed prior to work on the WT-2 glovebox.

#### *Infrastructure, support systems, and equipment removal*

Supplemental NDA measurements were completed on the active air sample vacuum piping in the 291-Z Building, using measurement techniques that reduced radiation from the adjacent process vacuum line, which was previously taken out of service and isolated. The measured value of holdup in the active section of line was significantly below the originally reported value, reducing concerns about the potential for an inadvertent criticality.



## RL-0013 Solid Waste Stabilization & Disposition

### RL-0013C:R1.1: Mixed Low-Level Waste/Low-Level Waste Treatment

ACTIVITY	SOLID WASTE STABILIZATION & DISPOSITION <i>Total Completed with Recovery Act funds</i>
Ship 1,800 m <sup>3</sup> of MLLW/LLW for treatment and disposal	<ul style="list-style-type: none"> <li>• 1,093 m<sup>3</sup> shipped               <ul style="list-style-type: none"> <li>○ 976 m<sup>3</sup> treated and disposed</li> <li>○ 117 m<sup>3</sup> at offsite treatment facilities awaiting processing. Treatment is scheduled for FY11.</li> </ul> </li> </ul>

### RL-0013C:R1.2: Transuranic Waste

ACTIVITY	SOLID WASTE STABILIZATION & DISPOSITION <i>Total Completed with Recovery Act funding</i>
Retrieve 2,500 m <sup>3</sup> of suspect TRU waste	<ul style="list-style-type: none"> <li>• 172 m<sup>3</sup> are staged, pending shipment</li> <li>• 824 m<sup>3</sup> shipped to a treatment, storage, or disposal facility</li> </ul>
Retrieve 50 m <sup>3</sup> of suspect RH TRU waste	<ul style="list-style-type: none"> <li>• 44 m<sup>3</sup> are staged, pending shipment.</li> <li>• 1 m<sup>3</sup> shipped to a treatment, storage, or disposal facility</li> </ul>

In the 3A burial grounds, two contact-handled containers (60.6 m<sup>3</sup>) from Trench 8 were shipped to the Central Waste Complex. Box 13, from Trench 17, was removed and the shoring box erected. Excavation of containers continued at the west end of Trench 17. A temporary cover is being fabricated for Box 27 located in Trench 17.

In the 4B burial ground, workers completed the removal of three feet of overburden from Trench 11. A second subsurface geophysical survey was performed. Workers also began alpha and beta continuous air monitors (CAMs), blower filter check, and outage filter changes preventative maintenance on the mobile drum venting system (mDVS) at 4C Process Area.

The field activities associated with the Contractor Readiness Assessment were completed for the Trench Face Retrieval and Characterization System (TFRCS).



Photo 4

Box 13 is lifted from Trench 17 in the 3A burial ground. The box of transuranic waste is shown here covered in a protective covering with a shoring base on the bottom to secure the waste box during removal from the trench. Once removed from the trench, the shoring box was completed.

*TRU Repackaging & Shipments*

ACTIVITY

Repackage 850 m<sup>3</sup> of WIPP certifiable TRU waste

Disposition 2,000 m<sup>3</sup> of contacted-handled TRU waste

SOLID WASTE STABILIZATION & DISPOSITION

*Total Completed with Recovery Act funding*

- 609 m<sup>3</sup> have been repackaged

- 563.2 m<sup>3</sup> have been disposed

## RL-0030 Soil & Groundwater Remediation, Groundwater/Vadose Zone

RL-0030.R1: Central Plateau Soil & Groundwater

ACTIVITY	WELL DRILLING & DECOMMISSIONING	
	<i>Week of Jan. 7, 2011</i>	<i>Complete to Date with Recovery Act funds</i>
Install 265 wells and/or boreholes along the river and in the Central Plateau	67 wells in progress	291
Decommission 280 old wells and boreholes that are no longer of service	Planning n progress	186

### *200W Groundwater Treatment Facility*

The project poured approximately 455 cubic yards of concrete, bringing the project-to-date total to approximately 7,800 cubic yards placed. Subcontractor Skanska USA Build Inc. and its subcontractors continued inside grading, rough-in electrical, temporary heat, fire protection, and power for the Radiological Building. The final close in of the Radiological Building was also completed this week with the exception of the translucent panel. The structural steel erection was completed, slab-on-grade pours continued, and installation of the fire protection well and dry systems was completed in the Bio Process Building.

Activities for the transfer buildings under construction by subcontractor George A. Grant Construction included (listed by building):

- Extraction #1: Punchlist items continue to be completed.
- Extraction #2: Punchlist items continue to be completed.
- Injection #1: Temporary heat installation of hand rails, door hardware, and other equipment continued.
- Injection #2: Roof and wall insulation and sheeting were initiated.



Photo 5

*Structural steel is on the rise for structures that will make up the 200 West Groundwater Treatment Facility.*





Photo 6

Roofing and sheeting is being installed on one of two injection buildings that will support the 200 West Groundwater Treatment Facility.

#### *DX Groundwater Treatment Facility*

The DX system is operating at approximately 470 gallons per minute. The Operations Test Procedure is expected to begin the week of Jan. 10, 2011, after outside temperatures have increased.

## RL-0040 Nuclear Facility D&D – Remainder of Hanford

RL-0040.R1.1: U Plant/Other D&D

### CENTRAL PLATEAU FACILITIES DEMOLISHED WITH RECOVERY ACT FUNDS

- 211U Cold Chemical Makeup Tank Farm
- 211UA Cold Chemical Makeup Tank Farm Addition
- 203UX Gas Storage Facility
- 2701M Office Bldg
- 272E Fabrication, Mockup Shop Bldg
- 2716E Power Maintenance Storage Bldg\*
- 2722W Welding Laboratory Bldg\*
- 224UA UO3 Calcination/Load-out Facility
- 2734EA Gas Cylinder Storage Bldg
- 275E Carpenter Shop Bldg
- MO104 Mobile Office
- MO405 Mobile Office
- MO840 Mobile Office
- X8 Motor Car Shed\*
- 224U UO3 Plant Concentration/Load-out Bldg
- 284WB Package Boiler Plant

TOTAL: 100,257 square feet

### PLANNED FOR D&D/IN PROGRESS

- 284E Power House & Steam Plant
- 209E Critical Mass Laboratory
- 284W Power House & Steam Plant
- 2701-W Coal Handlers Shed\*
- 2902-W Water Storage Tank\*

\*Not part of the Key Performance Parameter

### *U Canyon*

Core drilling of U Canyon's walls for grout conveyance access to the canyon progressed this week, with five holes drilled in the 221-U building's south face. With the grout contract awarded and construction of the batch plant beginning, the 90-percent grout design package is currently in final drafts. With final radiological scans inside the canyon completed, bulkhead construction and final preparation of the canyon interior for grouting is ongoing.



Photo 7

*On the exterior of the U Plant Canyon (or the 221-U Building) workers core drill for grout conveyance access to the canyon.*

### *U Plant Ancillary Facilities*

Final surveys, gravel placement and grading, and equipment decontamination continued at the site of the former 224-U and 224-UA ancillary facilities. The equipment is expected to be mobilized to future demolition sites at PFP this week. Closure documentation is being prepared.

### *200 East Core Industrial Area*

Asbestos abatement of the first floor of the 284-E Powerhouse is now complete, with final cleanup and loadout ongoing from the building.



Photo 8

*An exterior view of the 284-E Powerhouse during cleanup and loadout following completed asbestos abatement on the first floor of the building.*

### *200 West Area Industrial Facilities*

CHPRC completed demolition of the 284-WB Package Boiler Plant and its diesel tank, with final grading of and demobilization from the site completed last week. The area will next be used as a staging area for the explosive demolition, scheduled in early February, of the adjacent 284-W Power House's two exhaust chimneys and the 2902-W Water Tower. Demolition preparations began on the 2710-W Coal Handlers Shelter.





Photo 9

*Shown front is the former site of the now removed 284-WB Package Boiler Plant and its diesel tank located in the 200 West Area of the Hanford Site. CHPRC completed demolition of the plant last week. The 284-W Power House, shown in the background, is being prepared for demolition.*

### *209-E Criticality Mass Laboratory*

Electrical isolation of the 209-E building is nearly complete as asbestos abatement continued in the Critical Assembly and Mix rooms, with two Standard Waste Boxes and a LLW CONEX now filled with material. Work continues for the removal of the HO-200 glove box and equipment; electrical isolations of HO-170 and HO-140 are about 85 percent complete. Visual inspection of the tanks continued in preparation for removal and disposal, with three more tanks verified as dry and Tank 108 in the Critical Assembly Room expected to be removed this week.



Photo 10

*Little remains of Tank 108 in the 209-E Criticality Mass Laboratory. The tank once held chemicals used in nuclear criticality experiments.*

## RL-0040.R1.2: Outer Zone D&D/Waste Sites

### OUTER ZONE FACILITIES DEMOLISHED WITH RECOVERY ACT FUNDS

212N Storage Building	6652M Fallout Laboratory
212P Electrical Storage & Transformer Shop	6652R Acid Storage Shed
212R Storage Building	6652C Space Science Laboratory
614 Monitor Station	6652CSHED Storage Building
646 Radioecology Field Laboratory	6652D Pump House
6652G ALE Field Storage Building	6652T Fire Protection Lower Pump House
6652H ALE Laboratory 1	6652U Rattlesnake Mountain Upper Pump House
6652I ALE Headquarters	623A Plant Radio Relay Bldg
6652J ALE Laboratory II	T520-6 Navy MARS Radio Station
6652S Sentry Shed*	6631 Radio Telescope Pedestal*
6634 ENW Tower and Building*	6630 Hodges Well Pumphouse*
6635 Crown Castle/Cingular Tower and Building*	6636 Columbia Communication Tower and Building*
6637 Tri City Amateur Radio Tower and Building*	6633 Franklin County Communication Building*
6632 Verizon Telephone Enclosure*	

\*Not part of the Key Performance Parameter



### *North Slope Debris Removal*

Personnel with CHPRC subcontractor Sealaska Environmental Services continue debris cleanup in Areas 10, 13, 14, 16, and 18 of the North Slope.

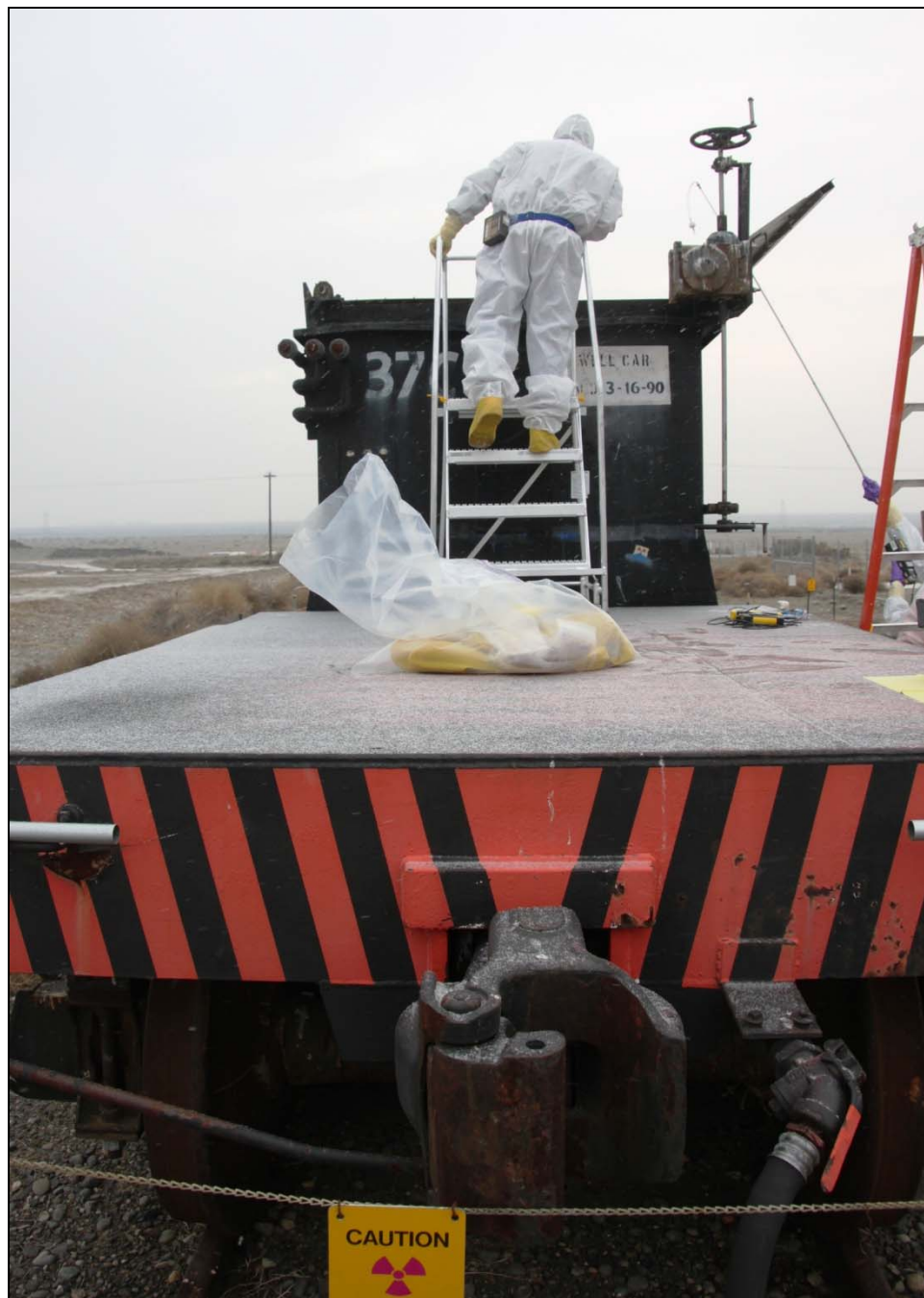
### *D&D of Railcars Located on the 212-R Rail Spur*

CHPRC workers resumed inspections of the cask cars, with one completed, and continued planning on work packages for the flat car, draining liquids, and loading and transporting of rail cars for final disposition. Discussions with representatives of the B Reactor museum regarding preservation of the locomotives and/or cask cars are ongoing.



Photo 11

Workers prepare to perform visual inspections of contaminated railcars in the 200 North Area of the Hanford Site that are being prepared for disposition.



A worker prepares to perform a visual inspection of a railcar in the 200 North Area. Planning is in progress for how CHPRC will disposition a total of 15 railcars on the 212-R Rail Spur.

Photo 12

*Waste Sites*

The following table showcases CHPRC’s recent progress in outer zone waste remediation.

WASTE SITE IN PROGRESS	TONS OF CONTAMINATED SOIL REMOVED	
	<i>Week Ending Jan. 7, 2011</i>	<i>Total to Date with Recovery Act funds</i>
600-286/287-PL	-	14,895
200-W-147-PL	1,119	5,592
BC Control Area	4,300	291,000



Recent activities regarding the outer zone waste sites also includes (listed by operable unit or site):

- *200-MG-1*
  - 600-40: Verification sampling was performed; additional direct push testing (DPT) is required and is anticipated to occur in January.
  - 600-220: Sampling was completed and retrieve, treat, and disposal (RTD) activities will be required.
  - 600-222: Excavation was completed, removing 57 tons of debris, and verification samples were taken. The Remedial Action Report is being reviewed by DOE-Richland Operations office and the Regulators.
  - 216-S-19: Laboratory results of surface sampling have been received and analyzed, revealing some elevated levels of contamination above the remedial action levels. No action will be taken until DPT samples are taken and analyzed.
  - 600-281: Confirmatory Sampling – No Further Action sampling was performed and RTD will be required.
  - 200-W-147-PL: Excavation is ongoing.
- *200-CW-3*
  - 216-N-4: The remaining site verification package (RSVP) is being prepared. Backfill is being hauled for 216-N-4 and N-6 with approximately 28,000 tons stockpiled.
  - 216-N-6: The RSVP is being prepared. Radiological Operations completed site down-posting.
  - 600-286-PL: Remediation is complete. Analytical results indicated the RTD is complete.
  - 600-287-PL: Excavation was completed Dec. 16, 2010 and the site has been downposted. Analytical results indicate RTD is complete. The road cut has been backfilled and the road is open.
- *BC Control Area*
  - For Zone A, approximately 114 acres have been excavated and surveyed.
  - For Zone B, radiological down-posting surveys are in process.



Photo 13

Excavation in progress at the 200-W-147-PL waste site in the 200 West Area of the Hanford Site.

## RL-0041 Nuclear Facility D&D – River Corridor Closure Project

### RL-0041.R1.1: 100K Area Remediation

#### 100K AREA FACILITIES DEMOLISHED WITH RECOVERY ACT FUNDS

- 183KW Chlorine Vault
- 183.1KW Headhouse
- 183.3KW Filter Basin
- 183.7 KW Pipe Tunnel
- 110KE Gas Storage Facility
- 116KE Reactor Exhaust Stack
- 118KE Horizontal Control Rod Storage
- MO048 Construction Lunch Trailer
- MO969 Ops/HPT Change Trailer

TOTAL: 485,643 square feet

#### PLANNED FOR D&D/IN PROGRESS

- 183.4KW Clearwell
- 190KW Main Pump House
- 183.4KE Clearwell
- 115KE Gas Recirculation (subgrade structures)
- 117KE Exhaust Air Filter (subgrade structures)
- 190KE Main Pump House
- 1605KE Guard House
- 181KE River Pump House

#### Facility D&D

Demolition work on both the east (office area) and west (horizontal control rod rack) sides of the 105-KE reactor building neared completion, as soil remediation continued in the area.



Photo 14

*Demolition is in progress on the horizontal control rod structure on the west side of the 105-KE Reactor Building.*





Photo 15

*Demolition is also in progress on the administrative area on the east side of the 105-KE Reactor Building.*

#### *Infrastructure Utilities Upgrade Project*

Customer acceptance testing of the microfiltration system is complete. The plant began a six-day operations test on Jan. 9 to demonstrate compliance with the State of Washington drinking water standards. Installation of the fire alarm system is ongoing in the plant. The drilling of the first of two grounding wells for the new A9 substation is complete with the second well beginning this week.





*A drilling rig in operation installing one of two grounding wells to support the A9 substation in the 100K Area.*

Photo 16

*Waste Sites*

CHPRC continued excavating soils from the 100-K-42 waste site associated with the 105-KE Reactor Discharge Chute and planning for the remediation of the 100-K-57 waste site.

WASTE SITE IN PROGRESS	TONS OF CONTAMINATED SOIL REMOVED	
	<i>Week Ending Jan. 7, 2010</i>	<i>Total to Date with Recovery Act funds</i>
100-K-42 105-KE Discharge Chute	912	15,379
117-KE	493	2,137

## UPCOMING EVENTS

### RL-0011 Nuclear Materials Stabilization & Disposition

#### RL-0011.R1: Plutonium Finishing Plant D&D

- Complete decontamination and remove last two glove boxes from 2736-ZB.
- Complete RadPro® chemical decontamination of glove box HA-46 in the RMA Line.
- Complete decontamination of HA-19B1 and B2 with Aspigel® and determine its effectiveness as an alternate decontamination process.
- Remove glove boxes HA-22 and HA-21I and first three sections of the HA-28 conveyor.
- Complete removal of equipment from conveyor gloveboxes HC-3 and HC-4.
- Remove the remaining two glove boxes from room 143 of the Analytical Laboratory.
- D&D nine glove boxes in room 179 of the Plutonium Process Support Laboratory.
- Continue removing process vacuum and process transfer piping.

### RL-0013 Solid Waste Stabilization & Disposition

#### RL-0013C:R1.1: MLLW Treatment

- No planned shipments.

#### RL-0013C:R1.2: TRU Waste

- TRU Retrieval
  - 3A burial ground:
    - Complete temporary cover and begin initial fogging of Trench 17 Box 27.
    - Complete excavation and removal of Trench 17 Boxes 19, 17, and 14.
    - Complete assay of Trench 17 Boxes 13, 17, and 19.
    - Ship Trench 8 Boxes 33 and 23 (67.4 m<sup>3</sup>) to CWC.
  - 4B/4C burial grounds:
    - Excavate 4B Trench 11 down to the trench base and remove ~10 m<sup>3</sup> of waste.
    - Complete preventative maintenance and review/approval of operating procedure SW-100-154 for the mDVS at 4C.
    - Conduct enhanced work plan session for procedure SW-100-201.
  - 12B burial ground:
    - Close out any open actions from the Contractor Readiness Assessment.
    - Initiate waste removal in 218-E-12B.
- TRU Repack
  - Six planned shipments.
- Suspect TRU Waste Shipments
  - No planned shipments.

### RL-0030 Soil & Groundwater Remediation, Groundwater/Vadose Zone

#### RL-0030.R1: Central Plateau Soil & Groundwater

- Continue construction of the 200 West Groundwater Treatment Facility.
- Continue well drilling and decommissioning.

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## RL-0040 Nuclear Facility D&D – Remainder of Hanford

### RL-0040.R1.1: U Plant/Other D&D

- Complete demobilization of equipment from U Ancillary facility work site.
- Continue core drilling at the canyon for grout conveyance.
- Complete removal of Tank 108 from 209-E Criticality Mass Laboratory.

### RL-0040.R1.2: Outer Zone D&D/Waste Sites

- Continue debris removal at the North Slope.
- Continue preparations for disposition of contaminated railcars.
- Backfill 216-N-4 and 216-N-6 waste sites.
- Continue remediation of BC Control Area and 200-MG-1 and 200-CW-3 waste sites.

## RL-0041 Nuclear Facility D&D – River Corridor Closure Project

### RL-0041.R1.1: 100K Area Remediation

- Continue demolition on the 105-KE Reactor Building.
- Begin drilling second well to improve A-9 substation grounding.
- Continue excavating soil from 100K Area waste sites.