



# Weekly Progress



AMERICAN RECOVERY & REINVESTMENT ACT

Week Ending April 8, 2011



CHPRC-01315

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 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

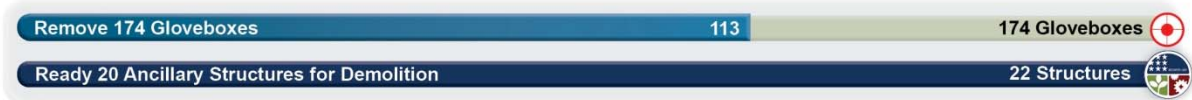
To find out more about Recovery Act progress at the Hanford Site, visit [www.hanford.gov/recovery](http://www.hanford.gov/recovery).

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



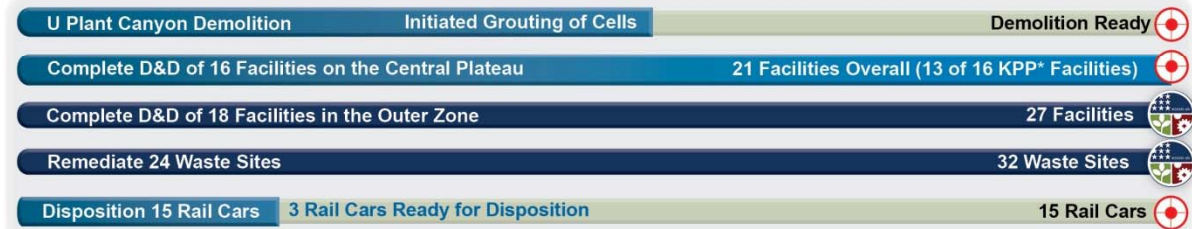
### SOLID WASTE STABILIZATION & DISPOSITION



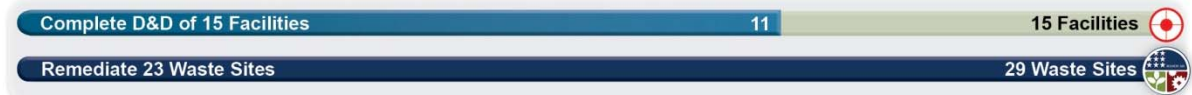
### SOIL & GROUNDWATER REMEDIATION



### 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 April 8, 2011</i>	<i>Completed to Date with Recovery Act funding</i>
Gloveboxes/hoods removed	6	113 gloveboxes/hoods
MLLW/LLW shipped	7 m <sup>3</sup>	2,457 m <sup>3</sup>
TRU shipped	11 m <sup>3</sup>	516 m <sup>3</sup>
Non-radioactive waste shipped	-	23 m <sup>3</sup>
Process transfer line removed	-	486 feet
Process vacuum system piping removed	-	1,210 feet
Asbestos removed	-	13,764 feet

#### *Process and Laboratory Areas*

The last glovebox in the Analytical Laboratories, 145-1, was painted, removed from building ventilation, and staged for future removal from the building. The glovebox has been dispositioned in place until the 234-5Z building is declared operationally clean, at which time it will be removed through the outer wall of the building and shipped to Perma-Fix Northwest (PFNW). With glovebox D&D complete in both the Standards and Analytical Laboratories, one of the laboratory D&D crews was assigned to clear miscellaneous materials from the laboratory areas prior to turnover of the rooms and area to the Balance of 234-5Z D&D crews.

In the Plutonium Process Support Laboratory (PPSL), gloveboxes 179-2 and 179-3 are scheduled for transfer to waste operations next week for onsite disposal as LLW at the Environmental Restoration Disposal Facility (ERDF).

In the Remote Mechanical C Line, work to remove the HC-3 and HC-4 conveyor gloveboxes remains on hold as improvements are made in the work documents. Removal is expected in mid-April. In the Remote Mechanical A Line, gloveboxes HA-19B1 and -B2 are ready for transfer to waste operations, along with previously removed glovebox HA-21I.

In the former Radioactive Acid Digestion Test Unit (RADTU) area, all three remaining gloveboxes (100B/C, 200, and 300) have been dispositioned in place for removal during building demolition. The gloveboxes were cleaned out, isolated, verified as LLW, painted for contamination control, and removed from building ventilation. A few miscellaneous punch list items remain to be completed before the RADTU area meets the Key Performance Parameter completion criteria and can be turned over for reuse by waste operations.

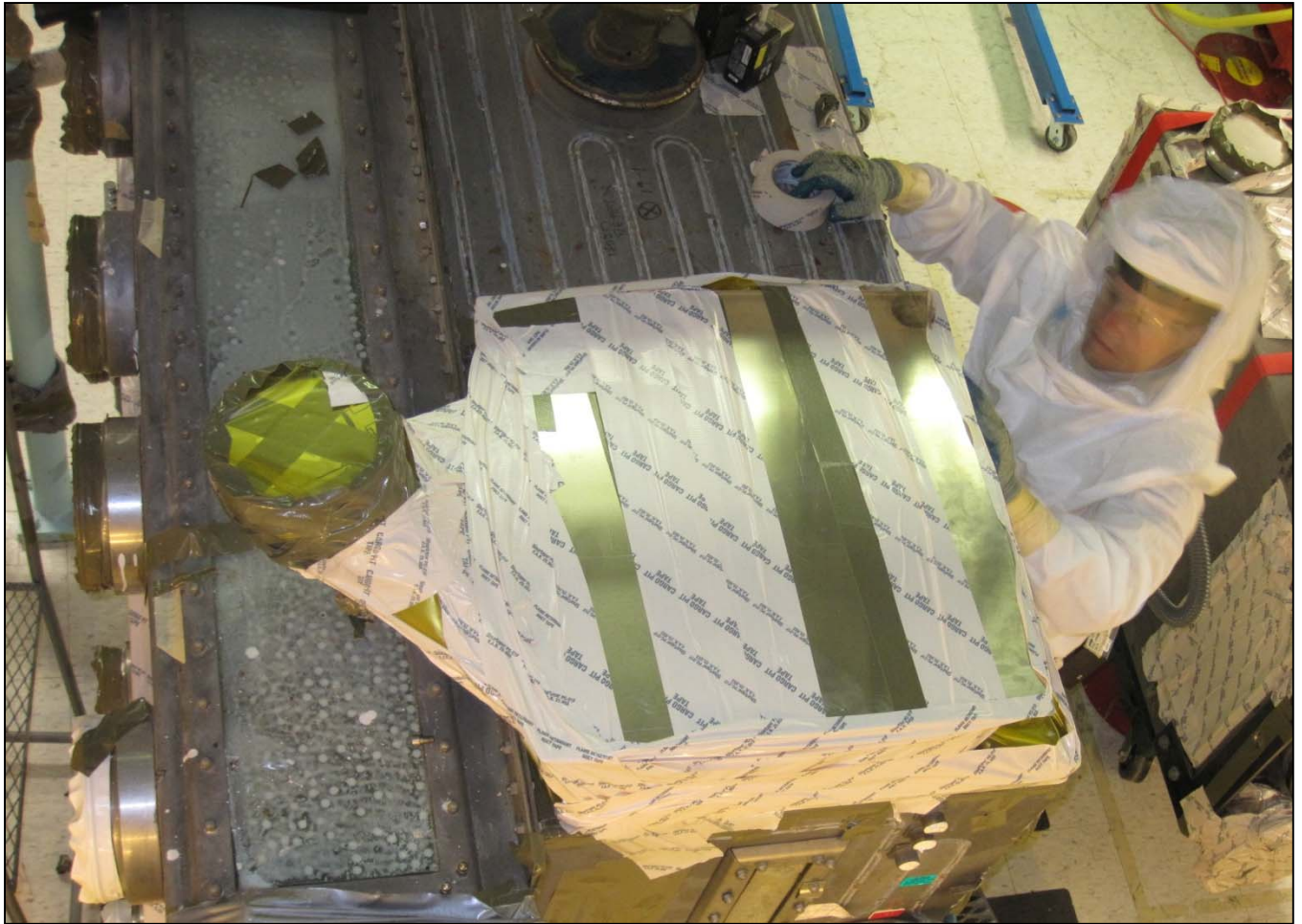


Photo 1

*A worker seals the remainder of the HA-19B2 glovebox following removal of the upper section.*

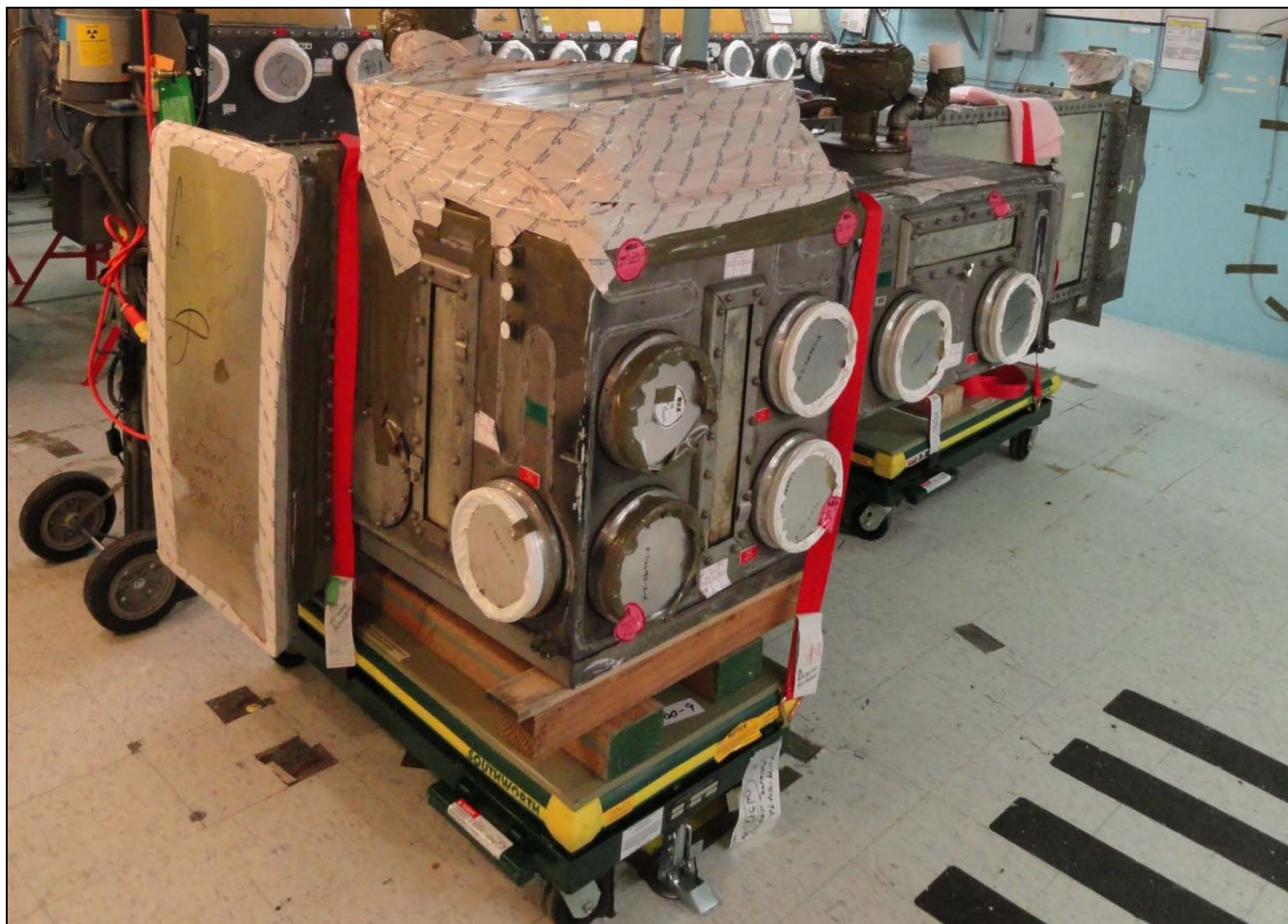


Photo 2

The HA-19B1 and B2 gloveboxes in the Remote Mechanical A Line at the Plutonium Finishing Plant ready for transfer to waste operations. The gloveboxes were cleaned out, isolated, decontaminated, and removed from building ventilation.

#### *2736-Z/ZB Vault Complex*

The vault complex D&D team is almost complete with removal of the primary glovebox exhaust ductwork. The team initiated coupon sampling and characterization of less contaminated ductwork to verify it can be left in place for demolition after stabilizing contamination on the interior surfaces with fixative. Work is continuing toward deactivation of the adjacent 2721-Z building, including installation of a backup generator for the 291-Z exhaust facility and removal of an underground diesel storage tank. The CHPRC D&D Project began mobilizing excavators and other heavy equipment that will be used during upcoming demolition of the vault complex and two adjacent ancillary facilities.

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

The 242-Z D&D team continued size reducing the WT-4 and WT-5 gloveboxes but experienced significantly elevated levels of airborne radioactivity. A recovery plan was nearly complete at the week's end and work should resume early next week.

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

Three waste shipments were made from PFP, including two additional sections of the 70-foot-long HA-28 conveyor glovebox shipped to PFNW, one shipment of LLW to ERDF, and six standard waste boxes (SWBs) of TRU waste shipped to the Waste Receiving and Packaging (WRAP) facility, which included



the upper section of glovebox HA-19B2. The process transfer line crew began removal of a new segment of line; however, levels of contamination resulted in the suspension of transfer line, vacuum system piping, and asbestos removal work for the duration of the week. Recovery actions are in progress. Work to install two trailer-mounted 1500 KVA transformers for temporary power continued. Crews also began mobilizing for stabilization grouting of the 234-5Z to 241-Z underground drain line encasement.

## RL-0013 Solid Waste Stabilization & Disposition

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

ACTIVITY	SOLID WASTE STABILIZATION & DISPOSITION
Ship 1,800 m <sup>3</sup> of MLLW/LLW for treatment and disposal	<i>Total Completed with Recovery Act funds</i>
	<ul style="list-style-type: none"> <li>• 1,309 m<sup>3</sup> shipped               <ul style="list-style-type: none"> <li>○ 1,135 m<sup>3</sup> treated and disposed</li> <li>○ 174 m<sup>3</sup> at offsite treatment facilities awaiting processing. Treatment is scheduled for FY11</li> </ul> </li> </ul>

One shipment was sent from the Waste Retrieval Project to PFNW. The shipment (3,172 m<sup>3</sup>) included MLLW debris that will undergo macro-encapsulation. Treated residues from the shipment will be returned to the Hanford Site for disposal in the Mixed Waste Disposal Units at the low-level burial grounds.

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

ACTIVITY	SOLID WASTE STABILIZATION & DISPOSITION
Retrieve 2,500 m <sup>3</sup> of suspect TRU waste	<i>Total Completed with Recovery Act funding</i>
Retrieve 50 m <sup>3</sup> of suspect remote-handled TRU waste	<ul style="list-style-type: none"> <li>• 547 m<sup>3</sup> are staged, pending shipment</li> <li>• 936 m<sup>3</sup> shipped to a treatment, storage, or disposal facility</li> <li>• 18 m<sup>3</sup> are staged, pending shipment.</li> <li>• 62 m<sup>3</sup> shipped to a treatment, storage, or disposal facility</li> </ul>

At the 3A burial ground, Trench 17, the shoring box assembly was completed for Box 24 (54.4 m<sup>3</sup>) and the box was shipped to the Central Waste Complex (CWC). Box 25 (54.4 m<sup>3</sup>) was removed from the trench and pre-fabrication of a shoring box for Box 26 continued. Mitigation and cleanup of the area around Boxes 26 and 27 continued in preparation for excavation. A fiberglass reinforced plywood (FRP) box (3.2 m<sup>3</sup>) from Trench 8 was shipped to PFNW.

In Trench 11 of the 4B burial ground, nine metal containers (22.7 m<sup>3</sup>) were removed. Preparations were also performed for 9 x 5 x 5 ft metal boxes for shipment scheduled to the CWC.

At the 12B burial ground, 76 drums were removed from Trench 27. Twenty drums were assayed, one drum was x-rayed, and the TRU drums were sampled for volatile organic compounds in preparation for shipment. The waste retrieval team excavated the north end of Trench 27 to expose two more rows of drums and excavated the north end of Trench 17 to reveal three rows of drums under the weather enclosure. The team also used training drums to demonstrate loading of four TRU drums into a SWBs.





Photo 3

*Metal containers planned for removal from Trench 11 of the 4B burial ground.*



Photo 4

*Metal containers, wrapped in protective plastic, are removed from Trench 11 of the 4B burial ground.*

*TRU Repackaging & Shipments*

ACTIVITY	SOLID WASTE STABILIZATION & DISPOSITION <i>Total Completed with Recovery Act funding</i>
Repackage 850 m <sup>3</sup> of WIPP certifiable TRU waste Disposition 2,000 m <sup>3</sup> of contacted-handled TRU waste	<ul style="list-style-type: none"> <li>• 725 m<sup>3</sup> have been repackaged</li> <li>• 1,279 m<sup>3</sup> have been disposed</li> </ul>

Ten drums were repackaged at T Plant and five at the WRAP Facility for a total of 15 drums repackaged this week. In conjunction with the Central Characterization Program, three TRUPACT-II shipments left the Hanford Site bound for the Waste Isolation Pilot Plant (WIPP), for a total of 166 shipments completed since shipments resumed, thanks to Recovery Act funding, in March 2010.

Two shipments (29.4 m<sup>3</sup>) were made from the CWC to PFNW. The shipments included two boxes of TRU debris that will be repackaged into SWBs or 55-gallon drums. The repackaged TRU waste will be returned to the Hanford Site for WIPP certification activities.



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

RL-0030.R1: Central Plateau Soil & Groundwater

ACTIVITY	WELL DRILLING & DECOMMISSIONING	
	<i>Week of April 8, 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	3 wells in progress	300
Decommission 280 old wells and boreholes that are no longer of service	4 well completed	211

### 200 West Groundwater Treatment Facility

Construction of the process and transfer facilities also included (listed by facility):

- *Process buildings*
  - Radiological Building: Rough-in for controls with the mechanical ductbank are complete. Ongoing activities included process piping rough-in overhead as well as in the trenches, lighting and power conduits overhead, and installation of exterior transformers.
  - Bio-Process Building: Installation of electrical panels, switchgear, fire alarm, and exterior transformers continued.
  - Bio Pad: Concrete formwork for the splitter box and main mechanical duct bank continued as did steel installation on the utility racks, hand rails, grating, conduit, sleeves, and cabling for lightning protection.
- *Transfer buildings*
  - Construction continued for the two extraction and two injection buildings with ongoing installation of piping, instrumentation and controls rough-in, and supply and exhaust fans.
- *Lime Building*
  - Activities continued for footings and underground conduit installation. Construction Acceptance Tests continued for the extraction wells.



Photo 5

*A skid arrives for installation in the Bio-Process Building of the 200 West Groundwater Treatment Facility.*





Photo 6

Skids in place in the Bio-Process Building of the 200 West Groundwater Treatment Facility.

## 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
  - 2710W Coal Handlers Shed
  - 2701EC 209-E Guard Station
  - 2902E Water Storage Tank
  - 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
  - 209EA 90 Day Storage Pad
  - 2902W Water Storage Tank
- TOTAL: ~108,951 square feet**

\*Not part of the Key Performance Parameter

### PLANNED FOR D&D/IN PROGRESS

- 284E Power House & Steam Plant
- 209E Critical Mass Laboratory
- 284W Power House & Steam Plant

### U Canyon

CHPRC crews and local subcontractors AGEC and Central Pre-Mix continued the successful “test pour” into the 221-U North Electrical Gallery, delivering 144 cubic yards of grout in stages to fill the room

while encapsulating debris and filling test void spaces. On the canyon deck, core drilling continued of six-foot grout conveyance holes into cell covers to reduce use of the contaminated crane inside the canyon during future grouting operations; 28 of 62 holes are complete. CHPRC subcontractor Watts Construction continued hauling clean rubble from the site of the demolished 183-KW Sedimentation Basins in the 100K Area to the U Canyon site in preparation for the building's demolition.

#### *U Plant Ancillary Facilities*

Closure documentation is being prepared.

#### *200 East Core Industrial Area*

At the demolition site of the 284-E Power House, the focus remains on debris cleanup and site preparation for the upcoming removal of the structure's boilers, while assembly began on a high-reach crane to reach the facility's boilers.



Photo 7

Debris cleanup continues at the site of the 284-E Power House where CHPRC demolished stacks, baghouses, and a coal silo.





Photo 8

Workers prepare a counterweight for placement on a high-reach crane to reach the 284-E building's boilers.

#### *200 West Area Industrial Facilities*

Debris cleanup at the site of the explosive demolitions of the 284-W Power House stacks and baghouses continued, along with asbestos abatement inside the 284-W Power House building, where workers completed work on the fifth floor of the building and are nearing completion of abatement of the conveyor structure and second floors.

#### *209-E Criticality Mass Laboratory*

CHPRC continued size-reduction and loadout of the HO-200 glovebox in the Mix Room of the 209-E Criticality Mass Laboratory. The HO-130 Uranium Pump glovebox has been disconnected and removed from the top of Tanks 101-104 and is size-reduced and ready for disposal. Crews met the requirements of

a Hazard Review Board assessment last week of their planned procedure to cut slab tanks in the CAR Room. The cutting and removal of slab tanks in both rooms – the last major step before the facility’s hazard level can be reduced to Less Than Hazard Category 3 – is expected to begin this week, along with a second shipment of TRU waste from the facility.



Photo 9

Workers size reduce glovebox HO-200 in the 209-E Criticality Mass Laboratory.

## 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 have completed cleanup of Areas 12, 15, and 16. Work continued in Area 18.

### *Arid Lands Ecology Reserve*

Revegetation of cleared sites on ALE is ongoing while closure documentation for removal of facilities from the area is prepared.

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

CHPRC completed its first application of wet grout to contaminated railcars, adding grout to eight cars in preparation for their removal from the area. The grout flowed into vent holes in the closed casks as planned, and dry grout will be added this week where residual liquids remain before a second application of wet grout completes the preparation for removal. Meanwhile, preparations continue for the lift-and-haul of two locomotives and two cask cars to the B Reactor museum site for preservation and display in early May.



Photo 10

*An aerial view showing grout delivered into a railcar.*



A radiological control technician (left) surveys a railcar as it is filled with grout.

Photo 11

*Waste Sites*

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

WASTE SITE IN PROGRESS	TONS OF CONTAMINATED SOIL REMOVED	
	<i>Week Ending April 8, 2011</i>	<i>Total to Date with Recovery Act funds</i>
BC Control Area	5,700	372,700

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

- 600-40: Additional sample testing is required and anticipated to occur in April.
- 600-218: Remediation activities are complete, contingent on sample activities.

- 600-220: Remediation activities commenced.
- 600-281: A cultural report was reviewed and further evaluation indicated this site may be remediated without affecting cultural sensitive areas.
- 600-282: Initial remediation is complete pending sampling results. Backfill material is staged.
- 216-S-19: Direct push test sampling is complete. Preliminary results are being reported from the laboratory and are under review.
- 216-S-26: Excavation commenced with the overburden removed. Shipping to ERDF will commence after completion of the ongoing contract Department of Transportation vendor evaluation.
- 200-W-147-PL: Post-verification sampling is complete; laboratory analysis of results is in process.
- **BC Control Area**
  - Altogether, approximately 140 acres of Zone A have been remediated with ongoing radiological down-post surveys and localized spot removal.

## 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	PLANNED FOR D&D/IN PROGRESS
<ul style="list-style-type: none"> <li>● 183KW Chlorine Vault</li> <li>● 183.1KW Headhouse</li> <li>● 183.3KW Filter Basin</li> <li>● 183.7 KW Pipe Tunnel</li> <li>● 110KE Gas Storage Facility</li> <li>● 117KE Exhaust Air Filter Bldg</li> </ul>	<ul style="list-style-type: none"> <li>● 116KE Reactor Exhaust Stack</li> <li>● 118KE Horizontal Control Rod Storage</li> <li>● MO048 Construction Lunch Trailer</li> <li>● MO969 Ops/HPT Change Trailer</li> <li>● 115KE Gas Recirculation</li> </ul>
	<ul style="list-style-type: none"> <li>● 183.4KW Clearwell</li> <li>● 190KW Main Pump House</li> <li>● 183.4KE Clearwell</li> <li>● 190KE Main Pump House</li> <li>● 1605KE Guard House</li> <li>● 181KE River Pump House</li> </ul>

#### *Facility D&D*

As demolition of the 120,000-square-foot 183.4-KW Clearwell nears completion, CHPRC demolished the 1,200-square-foot 185-K Potable Water Treatment Plant and the 888-square-foot west 183.5-KE Lime Feeder Building. Demolition and loadout continued on the west side of the 105KE Reactor. CHPRC subcontractor Watts Construction continues to haul clean rubble from the demolished 183-KW Sedimentation Basins to U Canyon and returning with clean soil to use as backfill of the sedimentation basin site. At the 181-KE River Pumphouse Structure, asbestos abatement is now complete, and crews are breaking down the containment structure in preparation for the next stage of the facility's demolition.





Photo 12

*CHPRC decommissioning and demolition crews demolish the 183.4-KW Clearwell structure, a 120,000-square-foot former water storage facility that once held 20 million gallons of water. The K East and K West Clearwells have been drained in preparation for their demolition, as recent completion of a new Water Treatment Facility has allowed demolition of the original 100K water treatment system.*





Photo 13

*CHPRC decommissioning and demolition crews demolish the 185-K Potable Water Treatment Building.*



Photo 14

*CHPRC decommissioning and demolition crews demolish the west 183.5-KE Lime Feeder Building.*



Photo 15

*A worker deconstructs an asbestos containment at the 181-KE River Pump House Structure. Blue marks areas where asbestos abatement is complete.*

#### *Waste Sites*

CHPRC continued excavating the 100-K-53 waste site, the 100-KE Glycol Heat Recovery Underground Pipelines, with 87 tons removed from the waste site last week, and a total of more than 12,000 tons removed to date. Remediation of the 116-KE-1 waste site is on hold pending sample results that are intended to provide data to develop a clear path forward for completing this waste site.

## UPCOMING EVENTS

### RL-0011 Nuclear Materials Stabilization & Disposition

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

- Complete D&D and remove the remaining gloveboxes from rooms 179 and 188 of the PPSL.
- Remove conveyor gloveboxes HC-3 and HC-4 from the RMC Line.
- Complete cleanout of the 232A scrubber cell and disposition glovebox HA-46 in place.
- Remove exhaust duct work, complete cold and dark isolations, and prepare the 2736-Z vault complex for demolition.
- D&D the remaining gloveboxes in the RMA/RMC Line process areas.
- Continue removing process vacuum, process transfer piping, and asbestos insulation from throughout the 234-5Z building.





## RL-0013 Solid Waste Stabilization & Disposition

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

- One MLLW shipment (8.7 m<sup>3</sup>) planned from CWC to PFNW for treatment by macro-encapsulation.
- One MLLW shipment (4.8 m<sup>3</sup>) planned from CWC to IMPACT Services for recycling. This is the final shipment to IMPACT Services for recycling.

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

- TRU Retrieval
  - 3A burial ground
    - Remove 3A Trench 17 Boxes 26 and 27.
    - Complete mitigation of contamination and down-post the high contamination area around 3A Trench 17 Box 27.
    - Complete pre-fabrication of remaining shoring boxes for Trench 17 Boxes 26 and 80.
    - Continue shipping some of the removed containers to CWC.
  - 4B/4C burial ground
    - Begin Mobile Drum Venting System preventative maintenance work packages and revise operating procedure SW-100-154 to incorporate a gas chromatograph.
    - Receive DOE-Richland Operations Office approval of the internal securements for the concrete-shielded overpacks (CSO) and fabricate/install the securements for eight CSOs, each containing a 3 x 3 x 3 ft remote-handled (RH) concrete boxes, and ship to CWC.
    - Ship three concrete boxes, three FRP boxes overpacked into a 9 x 5 x 5 ft metal box, and one 55-gal drum overpacked into an 85 gallon drum (27 m<sup>3</sup>) to PFNW.
    - Excavate and remove five metal containers (21.2 m<sup>3</sup>) and two thorium drums (.42 m<sup>3</sup>) from 4B Trench 11.
    - Begin excavation to uncover three CH containers (5.4 m<sup>3</sup>) and two RH containers (3.6 m<sup>3</sup>).
  - 12B burial ground
    - Remove ~160 drums per week from 12B Trenches 27 and 17.
    - Excavate Trench 27 and 17 as needed to expose retrievably stored waste.
    - Continue assay, venting, x-ray, and gas sampling operations for removed 12B containers.
- TRU Repackaging and Shipments
  - Five planned shipments
- Suspect TRU Waste Shipments
  - One TRU-mixed waste shipment (13 m<sup>3</sup>) planned from CWC to PFNW for repackaging.

## 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.

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

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

- Continue debris cleanup at the sites of the 200 East and 200 West Areas demolitions.
- Begin cutting slab tanks inside the 209-E Criticality Mass laboratory.
- Continue core-drilling of grout conveyance holes into cell covers inside U Canyon.

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

- Continue debris removal on the North Slope.
- Continue revegetating cleared sites on the ALE Reserve.
- Begin adding wet grout to contaminated well railcars.
- Perform additional sample testing of the 600-40 waste site.
- Continue remediation of the 600-220 waste site.

**RL-0041 Nuclear Facility D&D – River Corridor Closure Project****RL-0041.R1.1: 100K Area Remediation**

- Complete draining of 183-KE Sedimentation basins.
- Begin demolition of 183.4-KE and 183.4-KW Clearwells.
- Continue D&D of substructure around 105KE Reactor Building.
- Activate the A9 substation.
- Complete super-chlorination and testing of the new 100K potable water system.
- Continue excavating soil from and planning for remediation of 100K Area waste sites.