



Weekly Progress



AMERICAN RECOVERY & REINVESTMENT ACT

Week Ending Feb. 4, 2011



CHPRC-01220

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

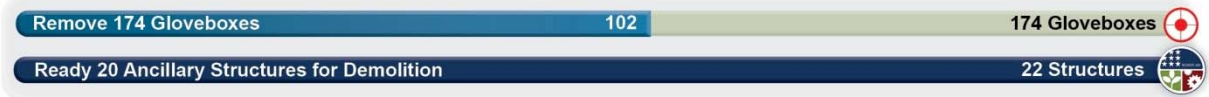
To find out more about Recovery Act progress at the Hanford Site, visit www.hanford.gov/recovery.

For information about CHPRC, including weekly Recovery Act newsletters and videos, visit www.plateauremediation.hanford.gov or contact 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.

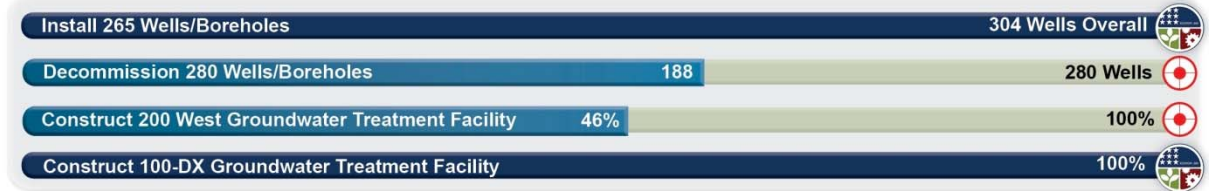
PLUTONIUM FINISHING PLANT D&D



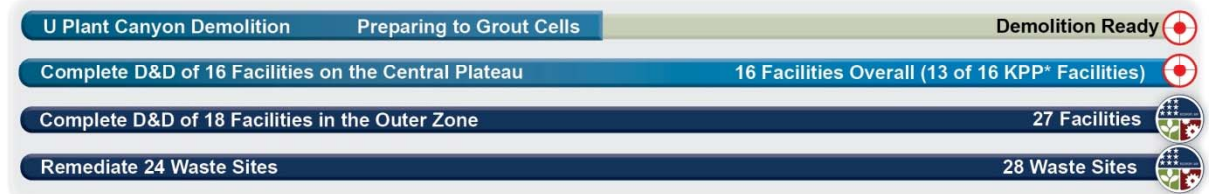
SOLID WASTE STABILIZATION & DISPOSITION



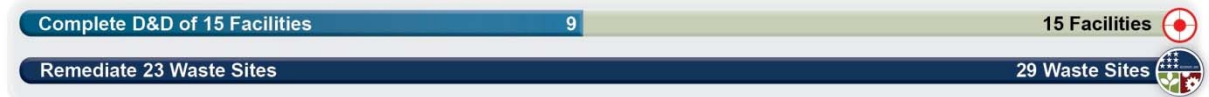
SOIL & GROUNDWATER REMEDIATION



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 Feb. 4, 2011</i>	<i>Completed to Date with Recovery Act funding</i>
Gloveboxes/hoods removed	-	102 gloveboxes/hoods
MLLW/LLW shipped	14 m ³	2,351 m ³
TRU shipped	-	376 m ³
Non-radioactive waste shipped	-	23 m ³
Process transfer line removed	-	346 feet
Process vacuum system piping removed	87 feet	874 feet
Asbestos removed	86 feet	13,304 feet

Process and Laboratory Areas

All gloveboxes and hoods have been removed from the Standards Laboratory. Waste seal-outs continued from glovebox 145-1, while external isolations continued on glovebox 152-522; these are the last two gloveboxes in the Analytical Laboratory. In the Plutonium Process Support Laboratory, surface contaminated object (SCO) surveys were completed on gloveboxes 179 -2 and -3, and the work package for D&D of gloveboxes 179-10, -11, and -12 was completed.

In the RMA Line, the fourth of five sections of the 70-foot-long HA-28 conveyor glovebox was successfully separated from the HC-4 and HA-19 gloveboxes. The second application of Aspigel® was removed and neutralized in gloveboxes HA-19B1 and B2; plans to re-survey the boxes are being developed. External isolations began on glovebox HA-7A. SCO surveys were completed following RadPro® decontamination of glovebox HA-46; one area of higher contamination was detected on the gasket material surrounding one window. The crew is planning to remove the window and gasket prior to proceeding with in-place disposition of the glovebox for later removal during building demolition. In the Radioactive Acid Digestion Test Unit area, internal inspections were completed for glovebox 300.



Photo 1

A section of glovebox 143 is loaded into a container for shipment to Perma-Fix Northwest. Last week a total of five gloveboxes from room 143 of the Analytical Laboratory of the Plutonium Finishing Plant (PFP) were loaded for shipment. Only two gloveboxes remain for removal from the Analytical Laboratory. The PFP project team has removed 74 of the 76 gloveboxes previously located in the laboratory, 55 with Recovery Act funds since April 2009.



Photo 2

One of five sections of a 70-foot-long conveyor glovebox is prepared to be loaded into a standard waste box for shipment and offsite disposal as transuranic waste.

2736-Z/ZB Vault Complex

Non-destructive assay (NDA) measurements were completed on glovebox 642-A, the last of nine gloveboxes remaining in the 2736-ZB vault support facility; the measurements confirmed that the glovebox will require size reduction and disposal as TRU waste. Glovebags and plastic sleeving were installed to isolate the glovebox from building ventilation in preparation for removal.

242-Z Americium Recovery Facility

The 242-Z D&D team removed selected windows, all of the furnaces, and the majority of other process equipment from gloveboxes WT-4 and WT-5. The team also initiated preparations for removing windows from WT-3. Interfaces were initiated with the Mission Support Contractor to terminate safeguards on all remaining process holdup in the facility.

Infrastructure, support systems, and equipment removal

The centralized size-reduction team completed cutting and packaging of gloveboxes 139-3 and 139-4 for disposal as TRU waste and began preparations for size reduction of glovebox 139-5. Three gloveboxes were shipped to Perma-Fix Northwest (PFNW) for offsite size reduction and packaging for disposal as TRU waste. Five additional gloveboxes, all from room 143 of the Analytical Laboratory, were loaded for

the next shipment to PFNW. While removal of process vacuum system piping continued – with 87 feet removed last week – the process transfer line removal crew initiated size reduction and packaging of their previously removed lines; removal of the piping will resume in the near future.



Photo 3

Workers size reduce process piping removed from the Plutonium Finishing Plant. The piping is size reduced, or cut into pieces, to be loaded into a standard waste box for shipment to Hanford's Waste Receiving and Packaging facility for future disposal at the Waste Isolation Pilot Plant in New Mexico.



Photo 4

Removing process vacuum system piping often requires workers to operate on elevated scaffolding in tight quarters amongst a complex network of piping and ductwork running throughout the Plutonium Finishing Plant.

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 ³ of MLLW/LLW for treatment and disposal	<i>Total Completed with Recovery Act funds</i>
	<ul style="list-style-type: none"> • 1,122 m³ shipped <ul style="list-style-type: none"> ○ 996 m³ treated and disposed ○ 126 m³ at offsite treatment facilities awaiting processing. Treatment is scheduled for FY11

No shipments were made last week.

RL-0013C:R1.2: Transuranic Waste

ACTIVITY	SOLID WASTE STABILIZATION & DISPOSITION <i>Total Completed with Recovery Act funding</i>
Retrieve 2,500 m ³ of suspect TRU waste	<ul style="list-style-type: none"> • 199 m³ are staged, pending shipment • 843 m³ shipped to a treatment, storage, or disposal facility
Retrieve 50 m ³ of suspect remote-handled TRU waste	<ul style="list-style-type: none"> • 43 m³ are staged, pending shipment. • 1 m³ shipped to a treatment, storage, or disposal facility

In the 3A burial ground, crews began fabricating the shoring base, walls, and roof for Box 15 in Trench 17 and fabricating corner softeners for Box 33 in Trench 8. In the 4B burial ground, waste retrieval workers removed three concrete boxes (~16.50 m³) from Trench 11 and also potholed and located two items that appeared to be debris and/or a crushed drum; the items were then wrapped in plastic and removed from the trench.

At the 12B burial ground, crews prepared to set up a contamination area and overhead misters in preparation for drum removal at Trench 17. A propane storage area was also set up. The propane will fuel forklifts used to transport drums on pallets. Installation of the conveyor system drum guard for the Gamma Assay System is complete. The conveyors move the drums in/out of the Gamma Assay System.



Photo 5

Hoist and rigging personnel direct a crane lifting a concrete waste box from Trench 11 in the 4B burial ground. The box is one of three that CHPRC removed from the trench last week with support from Recovery Act funding.



Photo 6

A concrete box of transuranic waste is lifted via crane from an underground storage trench. The box will be assayed and then shipped to the Central Waste Complex or to Perma-Fix Northwest.

TRU Repackaging & Shipments

ACTIVITY

- Repackage 850 m³ of WIPP certifiable TRU waste
- Disposition 2,000 m³ of contacted-handled TRU waste

SOLID WASTE STABILIZATION & DISPOSITION

Total Completed with Recovery Act funding

- 654 m³ have been repackaged
- 929 m³ have been disposed

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

RL-0030.R1: Central Plateau Soil & Groundwater

ACTIVITY	WELL DRILLING & DECOMMISSIONING	
	Week of Feb 4, 2011	Complete to Date with Recovery Act funds
Install 265 wells and/or boreholes along the river and in the Central Plateau	2 wells completed 11 wells in progress	304
Decommission 280 old wells and boreholes that are no longer of service	Planning in progress	188

200 West Groundwater Treatment Facility

The project poured approximately 600 cubic yards of concrete, bringing the project-to-date total to approximately 9,294 cubic yards placed.

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

- *Process buildings*
 - Radiological Building: Installation of process piping rough-in and translucent panel continued.
 - Bio Process Building: Sanitary water line testing is ongoing. Wall insulation and sheeting continued. Chemical room concrete/masonry wall installation was initiated.
 - Bio Pad: Installation of the structural steel, pipe supports, and equipment pad continued.
- *Transfer buildings*
 - Extraction Transfer Building #1: Process piping rough-in continued.
 - Extraction Transfer Building #2: Process piping rough-in overhead continued.
 - Injection Transfer Building #1: Process piping rough-in continued.
 - Injection Transfer Building #2: Painting and above-grid insulation installation began.
- *Lime Building (Sludge Stabilization System):* A workshop was held Feb. 3 to kick-off the project.



Piping is installed in an extraction building for the 200 West Groundwater Treatment Facility.

Photo 7

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

Construction of the on-site batch plant continued. Interior core drilling operations began.



Photo 8

Construction of the grout batch plant for U Canyon continues.

U Plant Ancillary Facilities

Closure documentation is being prepared.

200 East Core Industrial Area

With demobilization of asbestos abatement operations complete at the site of the 284-E Power House, CHPRC subcontractor Clauss Construction began preparing the building's exhaust chimneys, baghouses, and coal silo for an explosive demolition planned for early March. Crews are separating the structures with shears and oxygen torches and drilling holes for charge placement.

200 West Area Industrial Facilities

At the 284-W Power House, preparations are wrapping up for the upcoming explosive demolition of the building's exhaust chimneys and baghouses: The structures are separated from the Power House Building and each other, holes are drilled for charge placement, and the stacks are weakened to facilitate demolition.



Photo 9

A close-up of the bases of the exhaust chimneys adjacent to the 284-W Power House. In preparation for the upcoming explosive demolition, planned for mid-February, workers drilled holes for charge placement and weakened the bases.

209-E Criticality Mass Laboratory

Work to remove glovebox HO-170 continued, with panels and equipment loaded out as LLW. Fixative was applied to glovebox HO-140 to allow for entry and NDA activities. Tank 109 was verified as having no dose, and removal of process piping for glovebox HO-200 continued.

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 continued debris cleanup in Areas 10, 11, 12, 13, 16, 17, and 18 of the North Slope. Areas 15 is complete, Area 14 is complete pending Cultural Resource Review, and 302 No Potential to Cause Effect (NPCE) debris sites have been completed in all, meaning these sites will not require additional action such as a cultural review before cleanup can begin.

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

Preparations are under way to begin draining residual liquids from the cars in preparation for decontamination and grouting.

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 Feb. 4, 2011</i>	<i>Total to Date with Recovery Act funds</i>
600-286/287-PL	-	14,895
200-W-147-PL	-	6,450
BC Control Area	4,200	320,000

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

- *200-MG-1*
 - 600-40: Additional direct push testing is anticipated to occur in February.
 - 600-220: A Baseline Change Request/Advanced Work Authorization is in process to authorize remove, treat, and disposal (RTD) activities.
 - 600-222: Stockpiling of backfill material is complete.

- 216-S-19: Analysis of laboratory results of surface sampling revealed some elevated levels of contamination above the remedial action levels. Direct push test sampling is anticipated in February.
- 216-S-26: Site walk-downs were conducted and a kick-off meeting was held with the vendor.
- 600-281: Confirmatory Sampling – No Further Action sampling was performed and RTD will be required.
- 200-W-147-PL: Excavation is complete. Preparations for initial verification sampling will commence after resolution of a Stop Work.
- 600-275: Concrete debris removal to Pit #9 is ongoing with 39 loads transferred. Concrete removal is approximately 40 percent complete and should be complete next week. Re-verification sampling was performed.
- 200-CW-3
 - 216-N-4: Stockpiling of clean backfill at the site is substantially complete. Backfilling and contouring is in progress.
 - 216-N-6: Stockpiling of clean backfill at the site is substantially complete.
 - 600-286-PL: Remediation is complete. Analytical results indicated the RTD is complete. The site has been down-posted and backfill is under way.
 - 600-287-PL: Remediation is complete. Analytical results indicate the RTD is complete. The site has been down-posted.
- BC Control Area
 - For Zone A, approximately 134 acres have been excavated and surveyed. Seeding is in progress with approximately 60 acres seeded.
 - For Zone B, radiological down-posting surveys are ongoing.

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

TOTAL: 485,643 square feet

PLANNED FOR D&D/IN PROGRESS

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

Facility D&D

At the 181-KE River Pump House Structure, CHPRC subcontractor Watts Construction installed a silt barrier and began construction of a berm at the 181-KE site to allow demolition crews and equipment access to the north (river-facing) side of the structure. At the 105-KE Reactor building, demolition and load-out of the administrative area continued.



Photo 10

A silt barrier is constructed surrounding the site of the 181-KE River Pump House. The barrier will help control and minimize potential impacts to the river during demolition activities.



Photo 11

Demolition of the administrative area of the K East Reactor building continues. CHPRC is demolishing this and other reactor support facilities to help reduce the cleanup footprint of the 100K Area.

Infrastructure Utilities Upgrade Project

The two grounding wells for the new A9 substation were tied into the substation grounding grid. Testing and cut-over of the substation's transfer trip communications system was completed. The multi-purpose water storage tank was leak tested, the diesel fire pump installed, and the building sprinkler system pressure tested. Work is ongoing in the water treatment facility to complete installation of the fire walls, the fire alarm system, communications and data infrastructure, electrical upgrades, and mechanical punch list items.

Waste Sites

CHPRC continued excavating soils from the 100-K-42 waste site associated with the 105-KE Reactor Discharge Chute, with 1,140 tons removed last week for a total of more than 20,640 tons removed to date. Planning for the remediation of the 100-K-57 waste site continued.



Photo 12

An excavator removes material from the 100-K-42 waste site in the background while a rock truck is loaded with material in the foreground.

UPCOMING EVENTS

RL-0011 Nuclear Materials Stabilization & Disposition

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

- Remove the last glovebox from the 2736-ZB building and initiate final demolition-ready actions.
- Complete equipment removal from the last two gloveboxes in the Analytical Laboratory.
- Complete D&D and remove gloveboxes 2, 3, 4, 6, and 9 from room 179 of the Plutonium Process Development Laboratory; initiate D&D of gloveboxes 10, 11, and 12.
- Complete D&D of gloveboxes HA-7A and HC-15C.
- Remove one window from glove box HA-46 and prepare the box for dispositioning in place.
- Separate glovebox 200 from 100C and begin preparations to disposition the three remaining RADTU gloveboxes in place.
- Complete decontamination of gloveboxes HA-19B1 and B2 with Aspigel® and determine its effectiveness as an alternate decontamination process.
- Remove the last two sections of the HA-28 conveyor glovebox.
- Complete decontamination and remove conveyor gloveboxes HC-3 and HC-4 in the RMC Line.

RL-0013 Solid Waste Stabilization & Disposition

RL-0013C:R1.1: MLLW Treatment

- One MLLW shipment (0.2 m³) planned from Central Waste Complex (CWC) to PFNW.
- One MLLW shipment (0.2 m³) planned from CWC to M&EC.

RL-0013C:R1.2: TRU Waste

- TRU Retrieval
 - 3A burial ground
 - Resume excavation and waste removal in Trench 17.
 - Remove Trench 17 Box 27 temporary cover and fog under tarps.
 - Excavate Trench 17 Box 15 and determine/implement needed stabilization actions.
 - Complete excavation, removal, and portable assay of Trench 17 Boxes 21, 17, and 14.
 - Ship Trench 8 Box 33 (49.1 m³) to CWC.
 - Complete Trench 8 clean-up and closeout field activities.
 - 4B/4C burial ground
 - Remove three remote-handled concrete boxes (~ 2.3 m³) and place them in concrete-shielded overpack containers.
 - Remove a concrete culvert (~13.1 m³).
 - Complete portable assay of eight waste containers (Campaign #56) and begin assay Campaign #57.
 - Complete and approved 4C Mobile Drum Venting System (MDVS) procedure SW-100-154 and work package 2X-11-0639 for Testing and Functional Test.
 - Complete preventative maintenance work packages and perform user validation and functional test for the MDVS.
 - 12B burial ground
 - Remove and process drums from Trench 17.
 - Continue excavation in Trench 27 to expose waste drums.
- TRU Repackaging and Shipments
 - Resume shipments to the Waste Isolation Pilot Plant in conjunction with Hanford TRU program and Central Characterization Project.
- 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.

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

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

- Complete interior core drilling at U Canyon for grout conveyance access into spaces.
- Continue preparations at the 284-E Power House site for the March explosive demolition of the building's exhaust chimneys, baghouses, coal silo, and the nearby 2902-E Water Tower.
- Complete debris cleanup and preparations of the 284-W Power House stacks and baghouses as well as the 2902-W Water Tower for explosive demolition scheduled for Feb. 18.

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

- Continue debris removal at the North Slope.
- Drain liquids from contaminated railcars.
- Continue backfilling the 216-N-4 and 216-N-6 waste sites.
- Continue seeding at Zone A of the BC Control Area.
- 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 of the 105-KE Reactor Building administrative area.
- Complete construction of a berm at the 181-KE demolition site.
- Continue installation of the fire walls, the fire alarm system, communications and data infrastructure, electrical upgrades, and mechanical punch list items for the water treatment facility.
- Continue excavating soil from 100K Area waste sites.