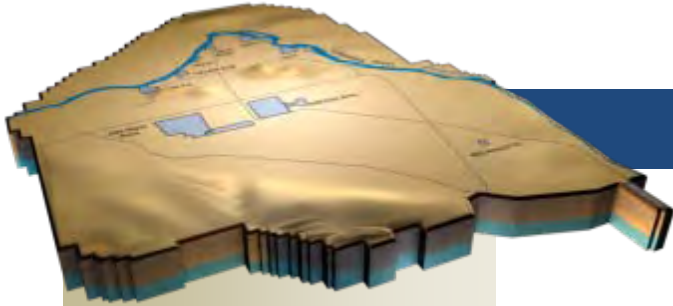


# ARRA Weekly Report



**Week Ending June 25, 2010**

June 29, 2010  
Contract DE-AC06-08RL14788  
Modification M047  
CHPRC1006-06

# Contents

OVERVIEW.....	3
ACCOMPLISHMENTS.....	4
RL-0011 Nuclear Materials Stabilization & Disposition.....	4
RL-0011.R1: Plutonium Finishing Plant D&D.....	4
RL-0013 Solid Waste Stabilization & Disposition.....	8
RL-0013C.R1.1: MLLW Treatment.....	9
RL-0013C.R1.2: TRU Waste.....	9
RL-0030 Soil & Groundwater Remediation, Groundwater/Vadose Zone.....	11
RL-0030.R1: Central Plateau Soil & Groundwater.....	12
RL-0040 Nuclear Facility D&D – Remainder of Hanford.....	14
RL-0040.R1.1: U Plant/Other D&D.....	14
RL-0040.R1.2: Outer Zone D&D/Waste Sites.....	16
RL-0041 Nuclear Facility D&D – River Corridor Closure Project.....	17
RL-0041.R1.1: 100K Area Remediation.....	19
UPCOMING EVENTS.....	24
RL-0011 Nuclear Materials Stabilization & Disposition.....	24
RL-0013 Solid Waste Stabilization & Disposition.....	24
RL-0030 Soil & Groundwater Remediation, Groundwater/Vadose Zone.....	24
RL-0040 Nuclear Facility D&D – Remainder of Hanford.....	25
RL-0041 Nuclear Facility D&D – River Corridor Closure Project.....	25

## OVERVIEW

CH2M HILL Plateau Remediation Company (CHPRC) is using funds from the American Recovery and Reinvestment Act (Recovery Act) to accelerate cleanup and demolition efforts across the Central Plateau and along the river corridor to help pursue the U.S. Department of Energy (DOE) 2015 vision and shrink the Hanford Site cleanup footprint.

### RL-0011 Nuclear Materials Stabilization & Disposition

CHPRC is accelerating critical decontamination and decommissioning (D&D) work to prepare the Plutonium Finishing Plant (PFP) for demolition three years ahead of the Tri-Party Agreement milestone of September 2016. The work scope includes removing over 180 glove boxes/laboratory hoods and other highly contaminated equipment from the 234-5Z, 242-Z, and 2736-ZB buildings as well as preparing the former special nuclear material storage structures and other ancillary buildings for demolition.

### RL-0013 Solid Waste Stabilization & Disposition

Recovery Act funds are allowing CHPRC to accelerate retrieval of 2,500 m<sup>3</sup> of suspect transuranic (TRU) waste, eliminate 1,800 m<sup>3</sup> of mixed low-level and low-level waste (MLLW and LLW), and accelerate the overall cleanup of legacy waste and fuels on the Hanford Site.

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

In the ongoing effort to protect the Columbia River, CHPRC is using Recovery Act funding to construct two groundwater treatment facilities, install over 300 wells that will be used for monitoring, extracting, and remediating groundwater, and decommission 350 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 accelerating the demolition of facilities to reduce mortgage costs on buildings that are no longer of service and complete the remediation of waste sites.

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

In the 100K Area along the Columbia River, CHPRC is demolishing 12 buildings and remediating waste sites to clear the area and prepare for the disposition of two reactors, K East and K West.

## ACCOMPLISHMENTS

### RL-0011 Nuclear Materials Stabilization & Disposition

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

The following table summarizes progress made with Recovery Act funding at PFP since April 2009.

Structures, equipment, waste disposition	Total to Date (since April 2009)
Glove boxes/hoods removed	65 glove boxes/hoods
MLLW/LLW shipped	1,062 m <sup>3</sup>
TRU shipped	144 m <sup>3</sup>
Non-radioactive waste shipped	22 m <sup>3</sup>
Asbestos removed	-9,500 feet
Ancillary structures demolished or removed	<ul style="list-style-type: none"> <li>• 17 fuel vaults/ancillary buildings prepared for demolition</li> <li>• 2 structures removed for reuse elsewhere</li> </ul>

Two waste shipments were completed from PFP this week, including one roll-on/roll-off container (7 m<sup>3</sup>) of LLW sent to the Environmental Restoration Disposal Facility (ERDF) and 24 empty, used shipping containers (3 m<sup>3</sup>) sent to Perma-Fix Northwest (PFNW) for size reduction prior to disposal at ERDF as LLW. No glove boxes or hoods were shipped out of PFP this week due to the suspension of beryllium-related waste handling at ERDF imposed by Washington Closure Hanford (WCH). The suspension was lifted on June 24 and a planned shipment of five glove boxes/hoods has been re-scheduled for early next week.

Significant progress was made in preparing two additional glove boxes for removal, including glove box 400 in the former Radioactive Acid Digestion Test Unit (RADTU) area of the 234-5Z building and glove box 636 in the 2736-ZB vault support facility.

A contamination event on June 23 in the base-funded work in the Plutonium Reclamation Facility significantly impacted Recovery Act work in the connected 242-Z and 234-5Z buildings late in the week.

Six forklift operators participated in the 13th Annual Forklift Skills Competition 2010 Washington State Championship held on June 19 at HAMMER. The operators previously joined the CHPRC workforce thanks to Recovery Act funding. During the event, drivers navigated a challenging driving course that included various tasks and hazards. Contestants were evaluated on the safe, efficient, skillful, and proper completion of the course using accepted forklift operating standards. Two more regional competitions will be held on July 17 and Aug. 21 in Spokane and Auburn, respectively. The top five individual competitors from each regional competition will advance to the 2010 Governor's Industrial Safety and Health Conference on Sept. 29 in Spokane.



*A forklift operator competes in an event at the 13th Annual Forklift Skills Competition 2010 Washington State Championship. Six CHPRC forklift operators, hired with Recovery Act funding, participated in the event to showcase the results of their training.*

Photo 1

### *Laboratory & Processing Areas*

Two hoods previously removed from room 141 of the Analytical Laboratory were prepared for shipment to ERDF as LLW. Final non-destructive assay (NDA) measurements were performed on three hoods previously removed from room 136. The hood appears to marginally exceed the criteria for transport and disposal as LLW; if this is confirmed, a revised disposition plan will be developed. Crews continued equipment removal from six glove boxes/hoods in room 139, and continued working toward sampling, analysis, and disposal of 56 chemical waste items in room 144.

In the Plutonium Process Support Laboratory, internal equipment removal was initiated from the glove box in room 180.

In the former processing areas, contamination fixative was applied to the inside of glove box 400 in the former RADTU area, inlet filters and ventilation monitoring equipment were removed, and the glove box was readied for isolation from building ventilation. Crews also continued isolation of glove box HA-46, chemical decontamination of glove box HA-28, and final preparations for process equipment removal from glove boxes 200 and 300. One of the D&D crews is also preparing to resume external isolations on two glove boxes in room 227.



Photo 2

*Glove box 400 in the former Radioactive Acid Digestion Test Unit area is being prepared for removal from the Plutonium Finishing Plant.*



Photo 3

The inlet filter is removed from glove box 400 in the former Radioactive Acid Digestion Test Unit area at the Plutonium Finishing Plant.

### 2736-Z/ZB Vault Complex

Glove box 636 was separated from building ventilation and lowered to the floor from its support structure. The glove box will be removed as a single unit and disposed of as soon as two doorways can be enlarged to avoid the need for size reduction. NDA measurements of the ventilation system, filter boxes, and other equipment in nearby rooms 641 and 642 was completed.



Photo 4

The glove box in room 636 was isolated from building ventilation and is shown here lowered on a lift table. It will be moved to the side while work continues in the room and the doorway is enlarged.

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

Additional entries were made to the airlock and control room in preparation for the application of contamination fixative to reduce airborne radioactivity levels throughout the two areas. Work package planning for mechanically and electrically isolating the 242-Z facility also continued.

#### *Ancillary and Security Structures*

Work package planning continued for disposal of 15 small fuel storage vaults at ERDF, and the Waste Shipping and Receiving Plan was submitted to WCH for approval. Work package planning continued for cold and dark isolation of five buildings previously used for controlling access to the PFP Protected Area. Significant progress was also made in preparing for demolition of the facilities later this year. This included fabrication of new accountability badges and badge boards, installation of OMNI locks and proximity badge readers on buildings not continuously occupied, and construction of an alternate pedestrian walkway through the old fence lines.

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

Ultrasonic testing to detect free liquids was completed, as was the installation of scaffolding to begin work next week on the first 350 feet of process vacuum system to be removed from the duct level of the 234-5Z building. Work was also completed on installation of the major components of the new air



conditioning system and the chillers are expected to be filled and undergo startup and testing next week. Most of the other facility modification projects remain on hold while affected subcontractor employees complete qualification and training under Hanford's new beryllium control program. A Work Site Assessment was completed to confirm the training and qualification program has been effectively implemented for employees and subcontractors hired with Recovery Act funds.

## RL-0013 Solid Waste Stabilization & Disposition

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

Of the 1,800 m<sup>3</sup> of MLLW and LLW planned for shipment under the Recovery Act:

- 986 m<sup>3</sup> of MLLW and LLW have been shipped to date including:
  - 715 m<sup>3</sup> that have been treated and disposed.
  - 271 m<sup>3</sup> at off-site treatment facilities awaiting processing. Treatment is scheduled for FY10.

There are no planned shipments of the remaining waste currently in storage. Shipping this waste will require additional time to review files and data to determine a path forward for each container.

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

Of the 2,500 m<sup>3</sup> of suspect TRU waste planned for retrieval under the Recovery Act:

- 17.1 m<sup>3</sup> are staged, pending shipment.
- 434 m<sup>3</sup> have been shipped to a treatment, storage, or disposal facility.

The Waste Retrieval Group workforce continued work in the 3A burial grounds, which included performing a critical lift to relocate Box 3 in Trench 17 onto the shoring base. The Retrieval Plan for Trench 8 was approved and development of new excavation procedures SW-100-201 and -202 continued along with revisions to the retrieval procedure SW-100-163 for Trench 8.

Development of a work package to place 24-hour SUMMA canisters in the bottom of 4B Trench 11 continued.

A previously retrieved waste container was over-packed in preparation for shipment from 4C to PFNW. New 12B real-time radiography (RTR) equipment was set in place and the final alignment is pending vendor support.



Photo 5

*Radiological control technicians survey beneath Box 3, a box of suspect transuranic waste that CHPRC is preparing for removal from underground storage in the 200 West Area of the Hanford Site. The box was covered with a protective covering box and lifted onto a shoring base that will support the underside of the damaged waste container.*



Photo 6

*Radiological control technicians guide a covered box of suspect transuranic (TRU) waste as it is lifted by a crane and placed onto a shoring base. The yellow cover box contains Box 3, a damaged fiberglass-reinforced plywood box of suspect TRU waste that has deteriorated after years in underground storage. Retrieval of the box and its contents is part of CHPRC's effort to remove TRU waste from the Hanford Site.*

#### *Alpha Caisson Retrieval Project*

The Baseline Change Request was approved and closeout on the Alpha Caisson Retrieval Project continued.

#### *TRU Project Drum Repackaging*

Of the 850 m<sup>3</sup> planned to be characterized and repackaged with funding from the Recovery Act:

- 1,530 drums (318.3 m<sup>3</sup>) have been repackaged.
- 53 TRUPACT-II shipments [1,343 55-gallon drums, 24 standard waste boxes (SWBs), two ten-drum over-packs, 48 85-gallon over-packs and 246 drums over-packed into 65 SWBs (387.9 m<sup>3</sup>)] have been shipped.

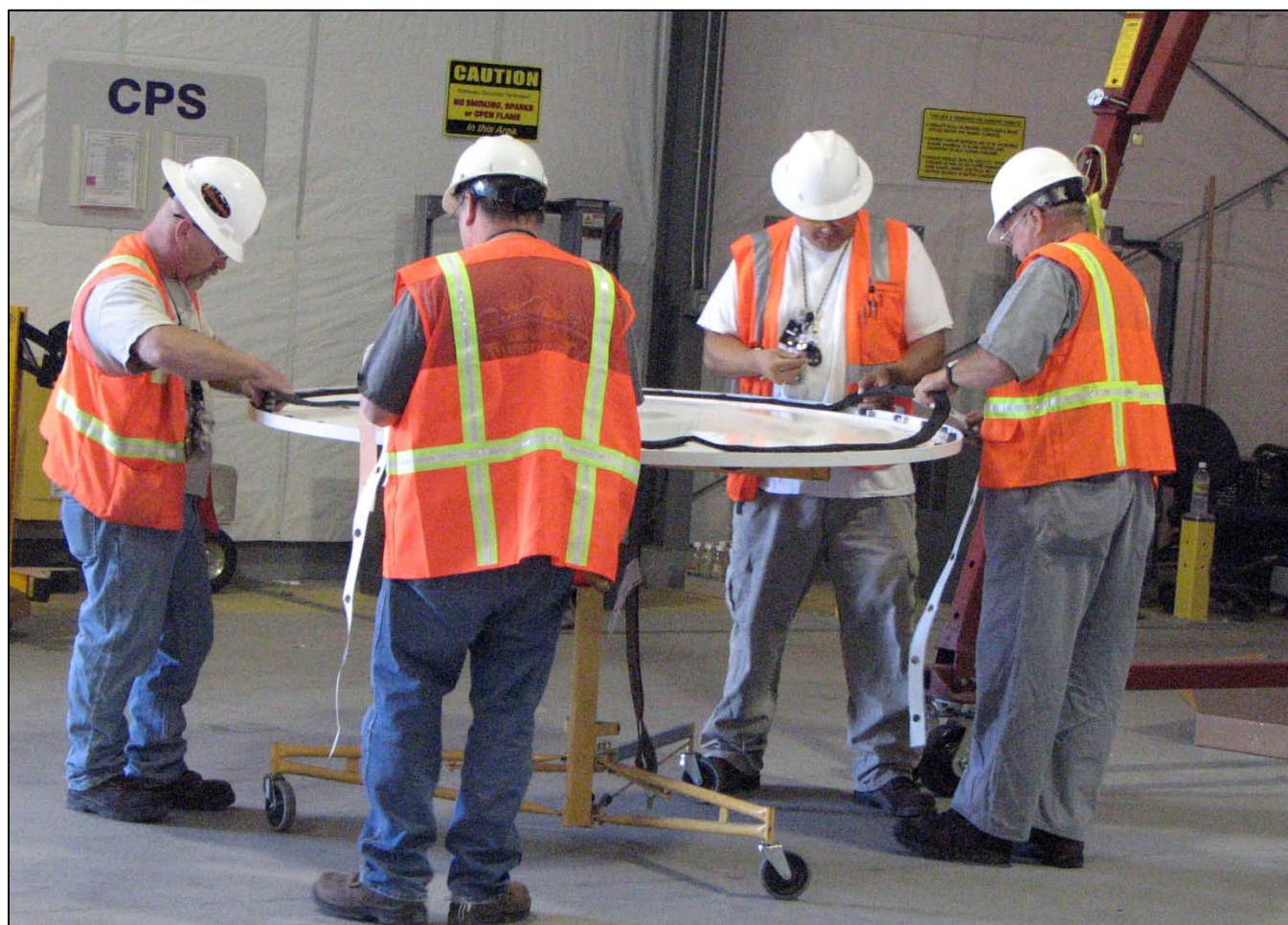


Photo 7

Two millwrights and two boilermakers place a gasket onto a ten-drum over-pack lid in preparation for the final closure and shipment of the over-pack container.

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

RL-0030.R1: Central Plateau Soil & Groundwater

### Well Drilling & Decommissioning

Planning is in progress for installing wells in the 100-HR-3 and 100-BC-5 operable units. The following table showcases additional progress in well drilling and decommissioning.

Operable Unit	Scope (Wells to be drilled with Recovery Act funding)	In progress	Drilled to Total Depth <sup>1</sup>	Completed or Developed <sup>2</sup>
100-KR-4	Support characterization of the vadose zone and aquifer (13 wells)	3	2	1
100-HR-3	H Area: Support the optimization of removal of chromium (40 wells)	29	28	26
100-HR-3	D Area: Support the optimization of removal of chromium (16 wells) <sup>3</sup>	16	16	16
M-24	Support characterization of the aquifer (5 wells)	5	4	3
200-ZP-1	Support the 200 West Groundwater Treatment Facility that will primarily treat carbon tetrachloride contamination in the groundwater (17 wells)	14	11	10
300-FF-5	Support characterization of the aquifer (11 wells)	1	-	-
Site-wide	Decommission wells that are no longer of service <sup>4</sup> (350 wells)			158

<sup>1</sup> Wells are drilled to varying depths to address contaminants at different depths in the soil.

<sup>2</sup> When a well is developed, the well screen and riser pipe are placed in the hole, filter pack material is placed around the screen, and the well has been surged and pumped to establish good communication between the well and the surrounding soil.

<sup>3</sup> Final two well locations received State historic preservation officer approval in May. Preparations for drilling are under way.

<sup>4</sup> Wells that are inactive or no longer of service are filled with grout or other materials, the casing is removed, and a cap or marker is installed.

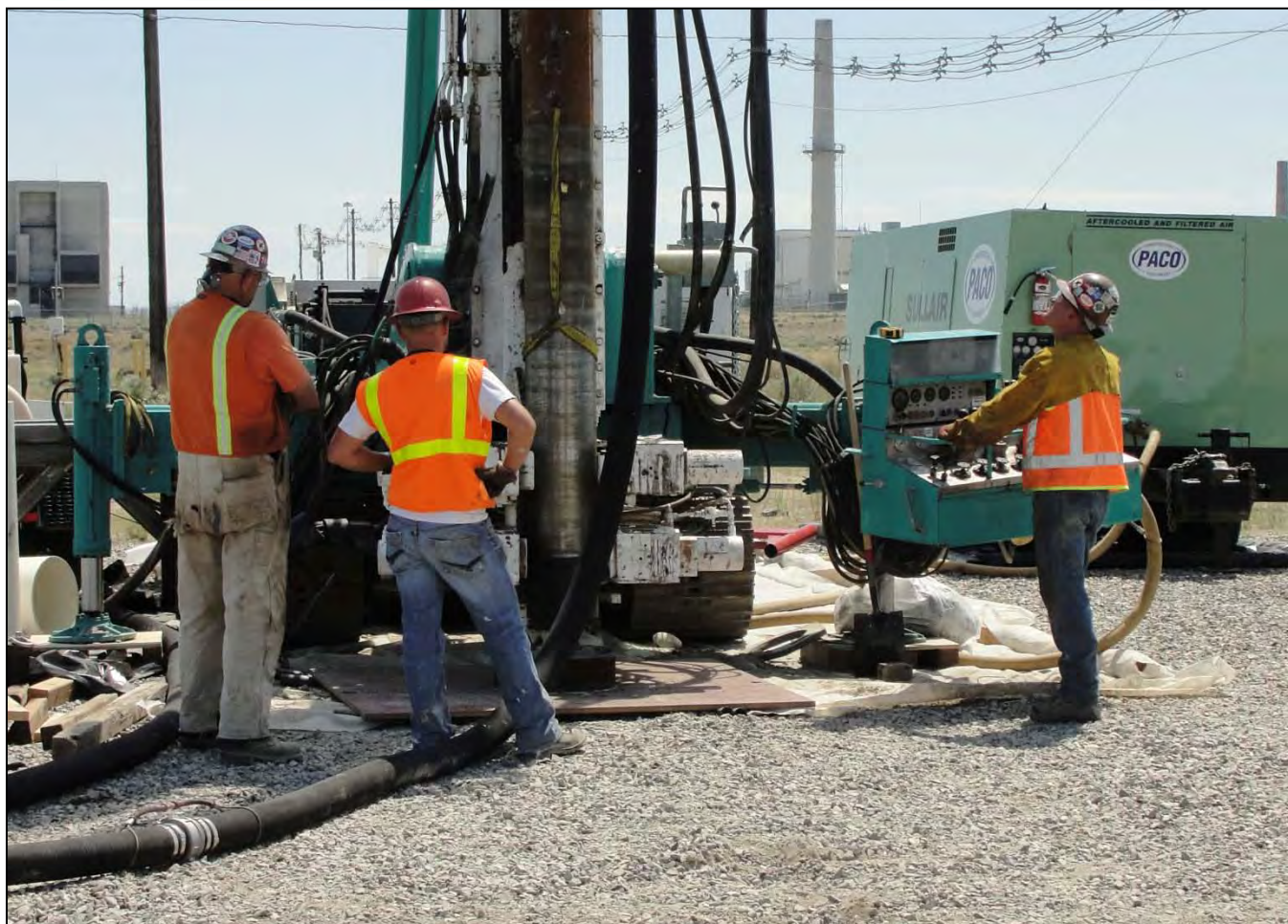


Photo 8

Workers observe as components are added to a well site in the 300-FF-5 operable unit, where CHPRC is using Recovery Act funding to install 11 wells that will support characterization of the aquifer.

### *200 West Groundwater Treatment Facility*

Major earth work continued on the 200 West Groundwater Treatment Facility project. The prime construction contractor, Skanska USA Building Inc., and their subcontractors continued site preparation for foundations and site infrastructure for both the Radiological Facility and the Bio-Processing Facility. The contractor also continued mobilizing to the work site and kicked-off field activities.

Construction of road crossings is at 44 of 47 complete. Drilling will have to be completed before the last 3 road crossings can be constructed.

Follow-up actions to the CH2M HILL corporate assessment are in process and approximately 25 percent of the actions have been completed.



Photo 9

Workers level fill material for the placement of high-density polyethylene piping en route to the 200 West Groundwater Treatment Facility. The piping will carry contaminated groundwater from the 200-ZP-1 operable unit to the facility for treatment.

*DX Groundwater Treatment Facility*

Construction of the DX Groundwater Treatment Facility continued with electrical, mechanical, and process equipment installations in the process and two transfer buildings. The progress is listed below.

Building	Electrical Equipment (% complete)	Mechanical Equipment (% complete)
Process	95%	95%
Transfer (M1)	98%	100%
Transfer (M2)	100	99%
Electrical Power Rack Tie-In		75%
HDPE Piping Installation		100

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

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

*U Canyon*

Equipment disposition activities continued in the U Canyon with 30 of 40 cells completed. A heavy lift plan and required rigging have been obtained to support placement of the two large N Reactor shipping casks that remain on the deck. Asbestos abatement activities continued. A contract was awarded for

fabrication of the cask needed to ship the D-10 tank to T Plant. Dialogue continued with potential bidders for the grout contract with bids expected in two weeks.

#### *U Plant Ancillary Facilities*

Demolition and debris load-out continued on the 224-U building. All debris from demolition of the 203-UX building has been loaded into containers for transport to and disposal at ERDF.

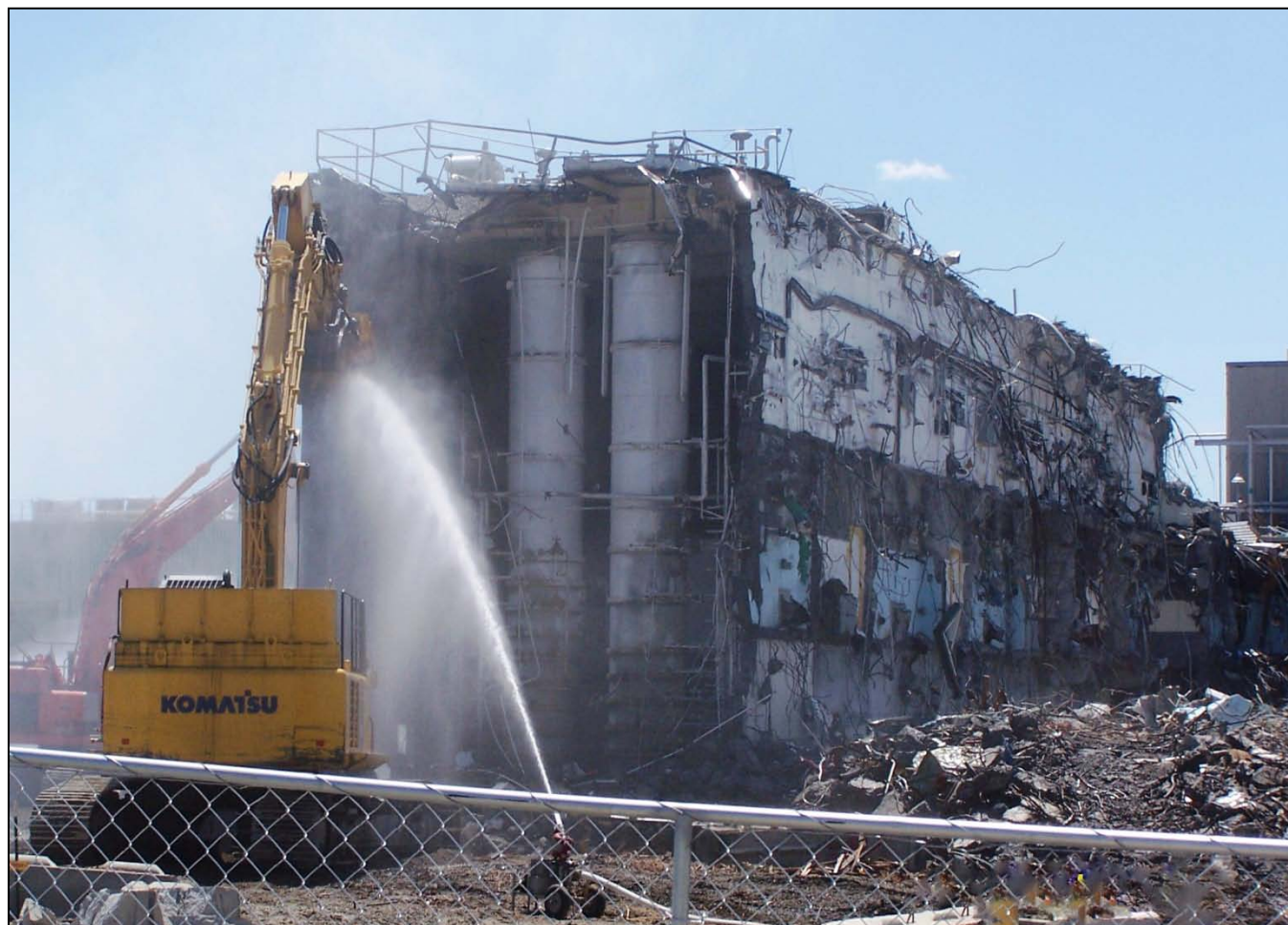


Photo 10

*Demolition of the 224-U facility continues. The debris is being loaded into roll-on/roll-off containers for disposal at the Environmental Restoration Disposal Facility.*

#### *200 East Core Industrial Area*

Asbestos abatement continued on the exterior steam piping of the 284-E Powerhouse. Erection of the containment in the main Powerhouse and abatement activities in the conveyor and crusher house are in progress. Demolition activities at the 272-E Fabrication and Mock-Up Shop were initiated. Due to migratory bird nesting in the 275-E Carpenter Shop Building, demolition of the facility has been postponed.

#### *200 West Area Industrial Facilities*

Planning and initial characterization activities continued for the demolition of six industrial structures in the 200 West Area. The facilities are being evaluated for the possible presence of beryllium.

### *209-E Criticality Mass Laboratory*

Life Safety Code upgrades to the facility were completed so activities within the Criticality Assembly Room (CAR) and MIX room can resume. Facility walk-downs were completed for characterization and planning for cold and dark isolation activities. Safety basis documents have been transmitted to DOE for approval. Planning activities currently ongoing include the development of work documents for changing gloves in the glove boxes, replacing filters in the MIX room, and activating the CAR door.

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

#### *Arid Lands Ecology Reserve (ALE) D&D*

Demolition of the 6652-C Nike Building/Space Science Laboratory continued. Cleanup of miscellaneous debris sites also continued. Facility isolation and characterization activities continued for the T520-6 Navy MARS Radio Station and 6630 Hodges Well Pump House. Removal of the 6652-D Pump House and 6652-T Fire Protection Lower Pump House foundations is complete.

#### *North Slope Debris Removal*

Initial planning continued for removal of debris from the North Slope on the Hanford Site. Environmental documents are being prepared and cultural reviews are being started.



Photo 11

An example of a debris site on the North Slope of the Hanford Site. Debris sites range in size and contents. With Recovery Act funding, CHPRC is removing debris sites from throughout the 90,000-acre North Slope to help clean up the area and shrink the Hanford Site cleanup footprint.





Photo 12

An example of a debris site on the North Slope. Debris sites were left behind over the years. Today, CHPRC is using Recovery Act funding to remove several hundred of them throughout the North Slope and Arid Lands Ecology Reserve. This cleanup supports the designation of this land as part of the Hanford Reach National Monument.

### Waste Sites

The following table showcases CHPRC's recent progress in removing contaminated soil from waste sites in the outer zone.

Waste Site in Progress	Tons of Contaminated Soil Removed	
	Week Ending June 25, 2010	Total to Date
600-40	-	1,300
216-N-4	1,500	34,000
BC Control Area	6,800	135,600

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

- **200-MG-1**
  - Samples are being analyzed for the following waste sites:
    - 600-36
    - 600-222
    - 216-S-26
  - 600-40: Review of in-process samples indicated additional exaction is needed; work is anticipated to start in early July.
  - 600-226: Sampling activities were completed and the samples are being analyzed.

- Preliminary results indicated retrieve, treat, and disposal activities will be required.
- 600-228: Surface sampling is complete; direct push testing will commence after UPR-600-12.
  - 600-275: Excavation was deferred due to nesting birds in proximity to the waste site.
  - OCSA (Old Central Shop Area): Confirmatory sampling instructions were issued and sampling activities continued.
  - Planning for retrieve, treat, and disposal activities continued for the following waste sites:
    - 200-W-33
    - 600-38.
    - 600-218
    - 600-281
    - Preparation of closure documentation for the 600-37 and 600-262 waste sites.
  - 200-CW-3
    - 216-N-1: Closure documentation is being prepared for DOE and Regulatory approval.
  - BC Control Area
    - For Zone A, approximately 33.5 acres have been excavated and surveyed. Removal of soil from Zone B is temporarily suspended until the end of the migratory bird nesting season on July 15 to avoid harm to protected species.



Photo 13

An excavator unloads soil removed from the BC Control Area into a super dump truck. The 13-square-mile BC Control Area is the largest waste site CHPRC is remediating with support from Recovery Act funding.

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

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

### *Facility D&D*

Demolition at the 183KW Sedimentation Basin was focused on the 183.3KW Filter Basin.

Asbestos abatement continued in the 1706KE and 1706KER substructures in preparation for demolition. Characterization samples were obtained from inside various piping systems and components located within radiologically controlled areas of the 115KE Gas Drier Building. Sample results will be used in demolition planning and preparations.



Photo 14

*A worker sprays fixative on piping in the substructure of the 1706KE building in preparation for asbestos abatement. The below-grade structures of the 1706KE and 1706KER buildings are being prepared for demolition.*

Planning for the explosive demolition to remove the 116KE Reactor Exhaust Stack and two overhead bridge cranes and the counterweights for the C elevator in the 105KE Reactor Building continued. An enhanced work planning session was conducted. Submittals from the explosive demolition contractor are being reviewed.

Preliminary design activities and document preparation for disposition of the 105KE Reactor continued.

Preliminary design documents continue to be received and are being reviewed. Core boring was completed at the last of four locations. Samples from the core borings are being analyzed.

Interior duct fabrication and installation for the 105KW Fuel Storage Basin facility heating, ventilation, and cooling system (HVAC) upgrade continued. Site preparation for the exterior components is complete. Roof access barriers were installed on the 105KW building roof in preparation for the upgrade activities.

#### *Infrastructure Utilities Upgrade Project*

Flushing and testing was completed on the import water line. Punch list items are being completed for the fire water and potable water lines along the southwestern perimeter (inside the fence) of the 100K Area. Fire water and potable water line installation continued in the vicinity of the 105KW Reactor facilities. About 940 feet of trench was excavated, and 720 feet of 8-inch firewater pipe and 90 feet of 6-inch firewater pipe was installed, including another fire hydrant. Excavations are being backfilled. Construction continued on the fire water and potable water lines being installed for the remainder of the 100K Area. About 1,900 feet of 12-inch fire water pipe and 1,460 feet of 4-inch potable water pipe have been installed to date.

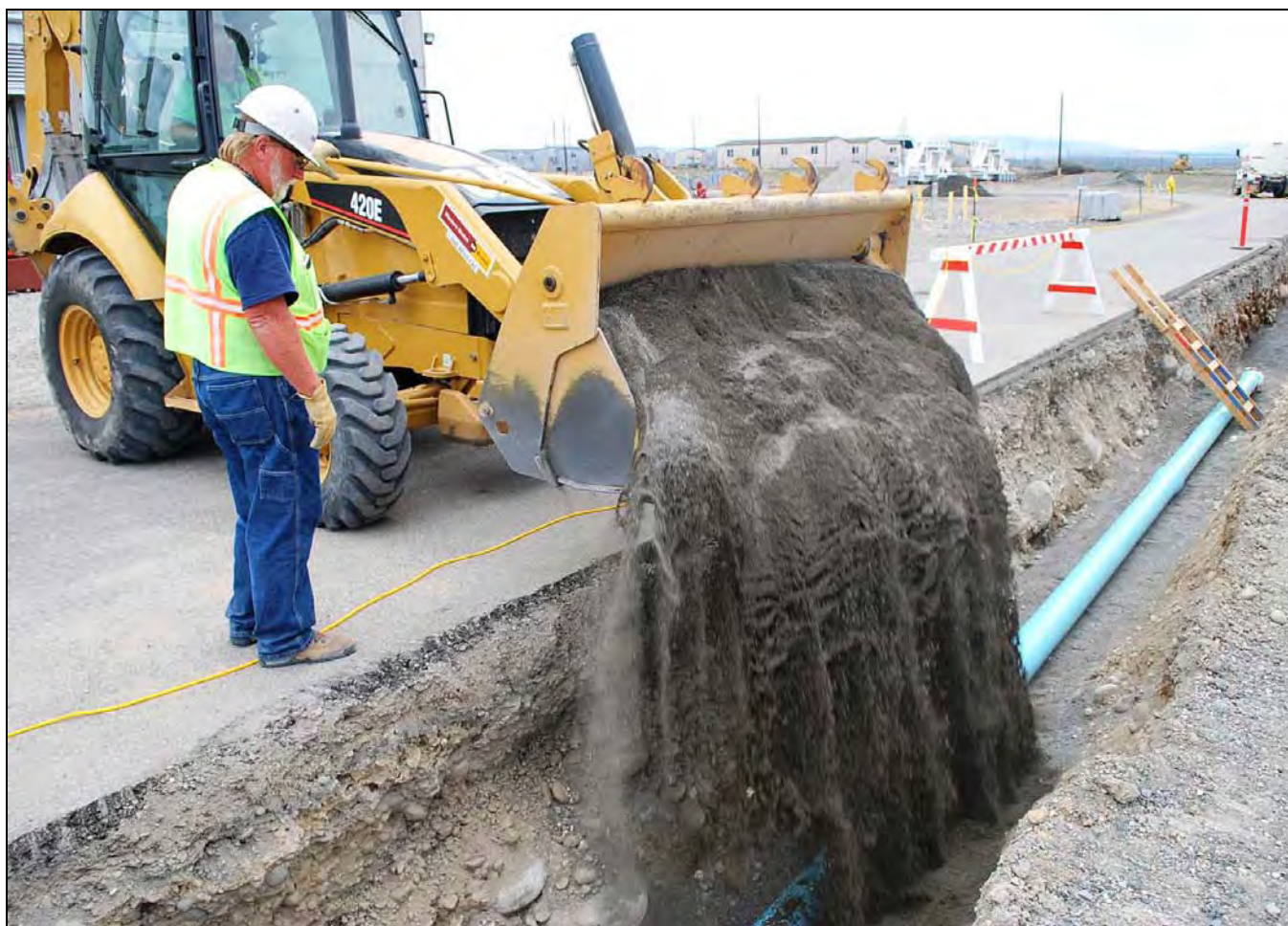


Photo 15

*A spotter observes as sand embedment material is placed in a trench for fire water piping.*

Construction of the Water Treatment Facility continued. Concrete was poured for the water treatment tank foundation. Under-slab backfilling continued and is about 90 percent complete. Forms were

constructed and concrete was placed for the Water Treatment Facility chemical storage room pits. Off-site fabrication continued for the fire pump, tank, and microfiltration unit.

Component installation continued on the skid frames for the A9 Substation refurbishment.

Material procurement has started for the 13.8kV electrical line re-route. Contractor pricing information is being received for the change that replaced part of the aerial installation with underground installation. Design work for additional changes is continuing.



Photo 16

*Workers install rebar for the foundation of the chemical storage room pits that will be part of the 100K Area Water Treatment Facility. CHPRC is constructing the facility so that existing infrastructure can be removed and future work in the 100K Area can continue with limited restrictions.*



Photo 17

Workers install components on the skid frames for the A9 Substation refurbishment. The components will help provide electrical distribution to the 100K Area so that existing infrastructure can be removed to facilitate future demolition and remediation work.

### Waste Sites

The following table showcases CHPRC's progress in removing contaminated soil from 100K Area waste sites, which were contaminated as a result of operations at Hanford's K Reactors.

Waste Site in Progress	Tons of Contaminated Soil Removed	
	Week Ending June 25, 2010	Total to Date
100-K-47 (Process Sewer)	550	16,650
100-K-53 (Glycol Heat Recovery Underground Pipelines)	-	355
100-K-56 (Reactor Cooling Water Pipelines)	-	11,500
100-K-68 (Pump Gallery and Catch Tank)	-	6,945
100-K-71 (Collection Box)	1,100	6,100
100-K-102 (French Drains and Mercury Stained Soil near 183KW Sedimentation Basin)	-	10,200
116-KE-3 (Storage Basin French Drain)	1,200	4,100
120-KW-1 (183-KW Filter Water Facility Dry Well)	-	9,100
<b>Below-grade structure/soil removal</b>		
183.1 KW (K West Headhouse)	4,400	16,500

Recent progress also includes (listed by waste site):

- Closure documentation (Remedial Action Report) is being developed and/or reviewed approved by DOE or the regulator for the following waste sites:
  - 100-K-37 (Sulfuric Acid Tank)
  - 100-K-38 (Caustic Soda Tank)
  - 116-KE-6A (Condensate Collection Tank)
  - 116-KE-6B (Evaporator Tank)
  - 116-KE-6C (Waste Accumulation Tank)
  - 116-KE-6D (Ion Exchange Column)
  - 118-KE-2 (Control Rod Storage Cave)
  - 130-KE-1 (Emergency Diesel Oil Storage Tank)
- Planning continued for the remediation of waste site 100-K-63 (West Floodplain).

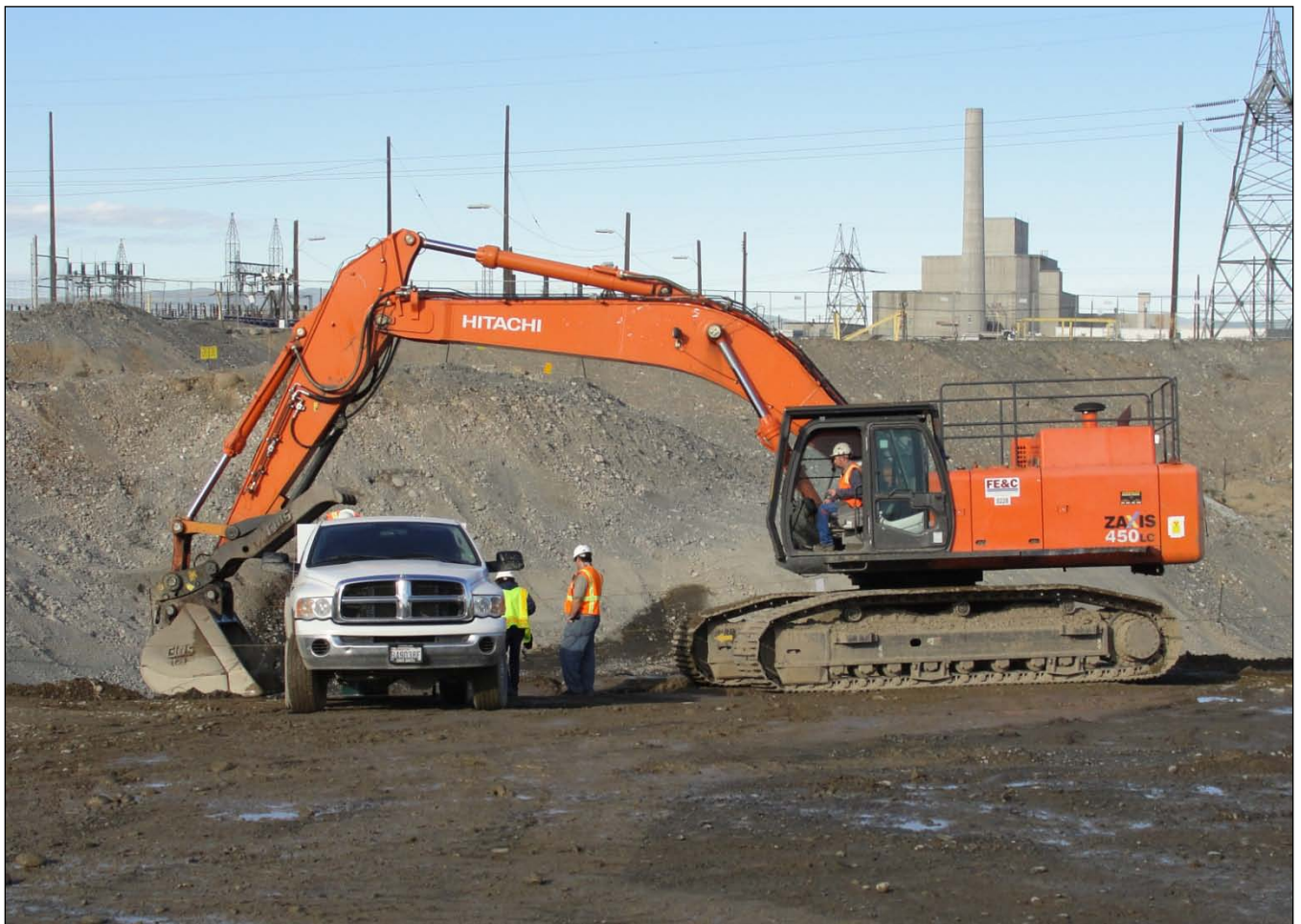


Photo 18

Work continues in the 100-K-56 waste site, one of several 100K Area waste sites that CHPRC is remediating with support from Recovery Act funding.

## UPCOMING EVENTS

### RL-0011 Nuclear Materials Stabilization & Disposition

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

- Ship the five glove boxes /hoods removed from room 141 of the Analytical Laboratory, and the last three glove boxes removed from the Standards Laboratory to ERDF for disposal.
- Remove glove box 400 from the RADTU area and ship it to ERDF for disposal.
- Continue external isolations and equipment removal from six glove boxes/hoods in room 139.
- Continue isolation and cleanout of three glove boxes/hoods in rooms 180 and 188.
- Remove various structures around glove box HC-230C-3, apply contamination fixative within the box, and remove it from building ventilation.
- Remove glove box HC-60 from building ventilation.
- Complete chemical decontamination of glove box HA-28 and external isolations from glove box HA-46
- Initiate removal of the process vacuum system piping from the 234-5Z and 291-Z buildings.
- Enlarge the exit doorway for removal of the 636 glove box in the 2736-ZB building.
- Install a new, larger glove box load-out port in room 642 of 2736-ZB for removal of heavy equipment.
- Complete the application of contamination fixative in the 242-ZA air lock, and begin application throughout the control room.

### RL-0013 Solid Waste Stabilization & Disposition

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

- No planned shipments for next week.

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

- TRU Retrieval
  - 3A burial grounds:
    - Present work package for Boxes 80 and 81 to the Hazard Review Board.
    - Complete the shoring box installation for Box 3, load box onto Top Hat IP-1 container, and ship to the Central Waste Complex (CWC).
    - Complete down-posting the south edge of 218-W-3AE in preparation of the 3A permanent power pole installation.
    - Receive, secure, and skirt the new 3A field trailer (MO-873).
    - Perform fiberglass-reinforced plywood box screw test on Boxes 2, 12, and 81.
  - 12B burial grounds:
    - Continue calibration, confirmation, and verification of the ANTECH gamma and passive/active neutron assay equipment.
    - Perform acceptance testing on the VJ Technologies RTR system.
    - Complete installation and set-up of the drum venting systems DVS2 and DVS3.
    - Perform mock-up retrieval activities for contact-handled and remote-handled waste drums in the Simulation Test Site Trench.
  - Over-pack two previously retrieved waste containers in 4C and prepare them for shipment to CWC and PFNW.
  - Complete work package, schedule, and execute placement of 24-hour SUMMA canisters in the bottom of 4B Trench 11.
  - Complete housekeeping and down-post selected contamination areas in 4B Trench 7.



- Complete the validation of the Mobile Radioactive Decontamination Unit operation procedure and continue start-up activities.
- Alpha Caisson Retrieval
  - Teleconferences with vendor finalists on the Remote Retrieval System on June 29.
  - Finalize file organization for restart.
  - Complete project closeout efforts by July 2.
- TRU Repack
  - Five planned TRUPACT-II shipments.

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

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

- Continue construction of the 200 West and DX Groundwater Treatment Facilities.
- Continue decommissioning wells across the site.
- Continue drilling at M-24, 100-HR-3, 100-KR-4, 200-ZP-1, and 300-FF-5.
- Continue planning for well installations at the 100-HR-3 and 100-BC-5 operable units.

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

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

- Continue demolition of the U Plant ancillary facilities.
- Continue relocating equipment into the process cells and asbestos abatement in the galleries.
- Continue demolition preparations (e.g., asbestos abatement) for the 284-E Powerhouse.
- Continue demolition planning and characterization of the 200 West Area industrial facilities.
- Continue demolition of the 200 East Core Industrial Area facilities, including the 272-E building.
- Continue planning and preparations for demolition of the 209-E Criticality Mass Laboratory.

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

- Continue removal of debris sites throughout the ALE Reserve.
- Continue demolition of the upper ALE facilities 6652-C and 6631.
- Continue cold and dark isolation activities of the ridgeline communication structures.
- Continue planning and characterization of structure 6630, the Hodges Well Pump House and Tank, and the 520-6 Day Wireless Facility.
- Continue planning for removing debris from the North Slope.
- Continue remediation of the BC Control Area, 200-CW-3, and 200-MG-1 waste sites.

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

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

- Continue demolition of the 183KW Sedimentation Basin structures.
- Continue demolition preparation activities for 115KE, 116KE, 117KE, 1706KE, and 1706KER.
- Continue debris removal from the KW Fuel Storage Basin.
- Continue activities for upgrading the 105KW HVAC system.
- Continue preliminary design and characterization activities for disposition of the 105KE Reactor.
- Complete core boring at fourth location of the 105KE Reactor.
- Continue activities for isolating 100K Area utilities to support of cold and dark preparations.
- Continue remediating soil from waste sites.