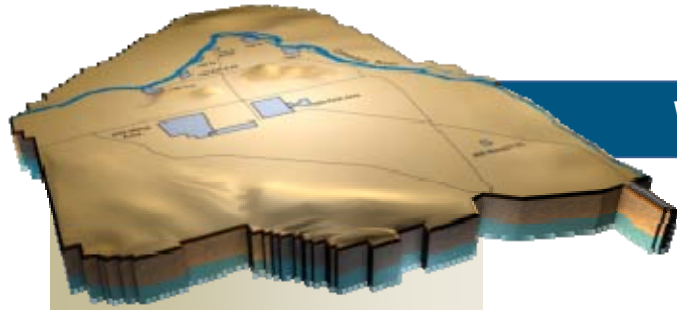


# ARRA Weekly Report



**Week Ending January 8, 2010**

January 12, 2010  
Contract DE-AC06-08RL14788  
Modification M047  
CHPRC1001-05

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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 cleanup and demolition efforts across the Central Plateau and along the river corridor to help pursue the U.S. Department of Energy 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 that will help prepare the Plutonium Finishing Plant (PFP) for demolition to slab-on-grade three years ahead of the Tri-Party Agreement Milestone of September 2016. The highest priority scope includes removing over 170 glove boxes/laboratory hoods and other highly contaminated equipment from the 234-5Z building, the largest facility at Hanford for plutonium production and processing.

### 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 and drill 344 wells that will be used for monitoring, extracting, and remediating groundwater.

### 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 provide access to waste sites located underneath.

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

In the 100 K Area along the Columbia River, CHPRC is demolishing 12 buildings and remediating 49 wastes sites to clear the area and prepare for the disposition of two reactors, K East and K West.

## ACCOMPLISHMENTS

*NOTE: This report covers activities performed during the reporting period Dec. 19, 2009 to Jan. 8, 2010.*

### RL-0011 Nuclear Materials Stabilization & Disposition

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

D&D field work teams continue to make significant strides in accelerating the cleanout and removal of highly contaminated plutonium processing and laboratory equipment in the 234-5Z building. A total of 37 of the 60 glove boxes/hoods removed from the building since October 2008 were completed with Recovery Act funding. Removal of process and laboratory equipment, decontamination, and removal of glove boxes/hoods is ongoing to reduce the remaining inventory of plutonium holdup and substantially reduce risks to workers, the environment, and the public.

Over the last two weeks, nine glove boxes and hoods removed from the various laboratory areas were loaded into a single IP-2 container and transported to the Environmental Restoration Disposal Facility (ERDF) for disposal. Recent progress in glove box disposition also includes (by laboratory area):

- *Plutonium Process Development Laboratory* - Three remaining hoods in room 187 were isolated from building ventilation, contamination fixative was applied inside the hoods, and they were removed and transferred to waste operations for future disposal.
- *Analytical Laboratory* - Non-destructive assay measurements confirmed that three hoods removed from room 131 were successfully decontaminated to LLW standards, and the hoods were transferred to waste operations to be packaged for disposal. Process equipment removal continued on three hoods in room 136, and final preparations were completed for removing the last hood from room 146.
- *Standards Laboratory* - Two safety shower/eyewash stations were deactivated and two doorways were widened to avoid the need for in-situ size reduction of glove boxes too large to be removed through the original doorways.

In the former production areas of the 234-5Z building, chemical decontamination of glove box HC-230C-3 is nearing completion, and preparations were initiated for final waste load-out and radiological surveys of the box. External mechanical isolations were completed on glove boxes HA-19B1, HA-19B2, and HC-230C-2, and size reduction and removal of process equipment was initiated for HA-19B1 and B2. Internal process equipment removal was completed for glove box HC-60, including the removal of a special protective coating that had been applied to the floor of the glove box during operations. Two newly deployed D&D crews made significant progress in activating glove boxes HC-227-S and HA-46 for process equipment removal, including calibrating the differential pressure gauges, installing new inlet filters, and reactivating previously isolated glove ports.

In other areas of the 234-5Z building, crews are deactivating, draining, and removing excess safety showers, eyewash stations, and lights that are blocking glove box removal routes. Six additional stations in the Plutonium Process Support and Analytical Laboratories were deactivated. Throughout the facilities, insulators have removed insulation from more than 6,700 feet of PFP piping and ductwork, and preparations continued toward initiating the removal of more than 5,000 feet of process vacuum lines.

With two small structures now removed from PFP, workers are preparing three other ancillary facilities for demolition. Security equipment, including the X-ray machines and a variety of detection equipment, was removed from the former 2701-ZD badge house, and a Criticality Alarm annunciation module in the former Central Alarm Station was relocated to the Power Control Room. A work package was also issued for mechanical isolation of the liquid nitrogen generator attached to 2731-ZA building.



Photo 1

*A laboratory hood is being transferred to a container for shipment to the Environmental Restoration Disposal Facility. The hood was recently removed from the Plutonium Process Development Laboratory and shipped with eight other glove boxes and hoods for disposal.*





Photo 2

Workers load a laboratory hood into a container for shipment to the Environmental Restoration Disposal Facility. In late December and early January, a total of nine glove boxes and hoods were loaded into the container and prepared for shipment and disposal. With Recovery Act funding, CHPRC has shipped 31 glove boxes/hoods for disposal in an effort to accelerate cleanout of the Plutonium Finishing Plant and prepare the facilities for demolition.



Photo 3

*Workers secure a container packed with nine glove boxes and hoods before it departs for the Environmental Restoration Disposal Facility.*



Photo 4

An insulator removes non-asbestos insulation from the water supply to a safety shower in the 234-5Z building of the Plutonium Finishing Plant. CHPRC is removing the insulation, as well as the safety showers, to prepare the building for demolition. To date, insulators have removed insulation from more than 6,700 feet of piping and ductwork.

## RL-0013 Solid Waste Stabilization & Disposition

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

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

- 725 m<sup>3</sup> have been shipped to date including:
  - 296 m<sup>3</sup> of LLW that have been treated and disposed.



- 429 m<sup>3</sup> at off-site treatment facilities awaiting processing. Treatment is scheduled for FY 2010.

One shipment of waste was sent out for treatment on Jan. 7. Eighty-eight drums (18.3 m<sup>3</sup>) of LLW debris were shipped from the Central Waste Complex (CWC) to Perma-Fix Northwest (PFNW). The waste will be volume-reduced, stabilized, and packaged for disposal in Hanford's Mixed Waste Disposal Units.

#### *Environmental Restoration Disposal Facility "Self Perform"*

Over the past two weeks, excavation for the foundation of the Container Maintenance Facility was completed. Building forms, rebar, bollards, and below-grade conduit were placed and inspected before the concrete for the foundation was poured on Jan. 5. The task required approximately 150 cubic yards of concrete and the coordination of multiple workers. Designers obtained approval on an alternate "vapor barrier" for the building, which resulted in cost and schedule savings for the project. The building's electrical and mechanical design drawings were sent out for review by the contractors. Comments were returned and are being resolved with final drawings expected next week. Design criteria and a conceptual design drawing for the new access road were sent to potential users for comment.



Photo 5

*CHPRC employees work together to place the foundation for the Container Maintenance Facility. The pour was completed on Jan. 5 with workers pouring, leveling, and finishing the concrete simultaneously.*

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.
- 428.6 m<sup>3</sup> have been shipped to a treatment, storage, or disposal facility.

Removal activities continued in the 3A burial grounds where workers continued the fabrication of a shoring box roof and the pre-assembly of shoring box walls for Box 3 in Trench 17. Workers prepared critical lift plans and a Work Package Change Notice to lift Box 3 out of the trench for shipment with a shoring box. The setup of the HEPA vacuum and cyclone separator drum for Box 82 in Trench 17 was completed. The inside of Box 82 was fogged to fix contamination. Two 12-inch by 12-inch holes were cut into the lid of Box 82 and a 1-foot by 8-foot section was removed to allow workers to see the contents of the box. Also for the 3A burial grounds, requirements for personal protective equipment were defined for the change trailer and restroom trailer and both were incorporated into the current procurement managed by the CHPRC Facilities and Property Management group. For Trench 8, procedure and permit revisions and the preliminary logistics drawing were completed and the ground-penetrating radar mapping (GPRM) survey was rescheduled.

Work also continued in the 4B burial ground. Housekeeping continued in the TV7 vault of Trench 7 and a statement of work was completed for metal weather covers for boxes in Trench 11 and boxes at the CWC.

Parking for retrieval personnel was expanded and relocated to accommodate the increased number of employees from the Container Maintenance Facility that is now under construction.

#### *Alpha Caisson Retrieval Project*

The Alpha Caisson Retrieval Project Management Group held a Project Review Board (PRB) meeting on Dec. 14. The team requested conditional authorization to proceed through March 2010 based on a resolution of environmental issues, issuance of the Conceptual Safety Design Report (CDR), and estimate verification. The PRB committee was in agreement with this approach and the decision went under review by the CHPRC President's office. The committee presented the meeting results to the President's office on Jan. 6 and they were met with agreement. The Nuclear Safety organization issued a draft report on hazards of unstable and potentially energetic chemicals suspected of being in the Alpha Caisson. The group completed the conceptual man-hour estimate for Project Management, Nuclear Safety, Construction Management, and Operations startup support. Daily review meetings to manage the final two weeks of the CDR continued and CHPRC staff is currently reviewing the CDR draft. They initiated the preparation of procurement documents for the remote-operated vehicle, which is a piece of equipment that will be able to extend and retrieve waste inside the caisson. The team is currently evaluating whether the equipment will operate within the constraints of the caisson and the adjacent retrieval cell. The Waste Retrieval System and Waste Processing System groups issued their conceptual design sections for review on Dec. 21.

#### *TRU Project New Hires*

On the Hanford Site, the term new hire does not necessarily mean new to Hanford. Recovery Act funding has helped CHPRC welcome back several former employees as well as interns. New hires Nancy Hulse, Megan Campbell, and Jennifer Kronvall joined the CHPRC team this fall, eager to put their previous Hanford experience to work after months of job hunting.

Before she was hired by CHPRC, Hulse had not had a full-time job since 2005, when she was laid off from her position as a technical writer with the Tank Farms project. She is now supporting the TRU Project, providing the Central Characterization Project with information support and collecting and evaluating historical waste stream information.

Kronvall and Campbell are recent graduates from Washington State University who found that despite a college degree and a résumé full of experience—including previous internships with Hanford contractors—finding a job was not easy.

Kronvall sent in hundreds of applications and took on several temporary positions before she found this opportunity. For Campbell, even after getting an internship, it still took her five months of networking and getting her foot in the door before she was hired onto the project. Kronvall and Campbell were hired onto the TRU Project after completing summer internships. Kronvall is supporting waste certification and Campbell is supporting the development of processes and improvements for waste disposition.

Altogether, these new hires say they are glad to be meeting new people and developing skills that they can adapt and put to work in the future.



Photo 6

*Recovery Act new hires Jennifer Kronvall, Megan Campbell, and Nancy Hulse applied for hundreds of jobs and waited months before they were hired onto the CHPRC TRU Program, thanks to Recovery Act funding.*





Photo 7

*Megan Campbell and Nancy Hulse, Recovery Act new hires to the CHPRC TRU Program, review documents concerning waste disposition on the Hanford Site. Campbell joined CHPRC after completing her summer internship and Hulse was welcomed back after having been laid off from a previous Hanford contractor in 2005.*

#### *TRU Project Drum Repackaging*

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

- 558 drums (116 m<sup>3</sup>) were repackaged.
- 910 drums (189 m<sup>3</sup>) have been quick-scanned to date.
- Repack instructions (corrective actions) for 1,091 drums (227 m<sup>3</sup>) have been developed.

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

RL-0030.R1: Central Plateau Soil & Groundwater

The main process building and two transfer buildings for the new DX Groundwater Treatment Facility are taking shape in the 100-HR-3 D Area. Construction of the outer steel shell of the main process building is complete as well as the installation of the doors, hardware, building lining, and insulation. For the first transfer building, the construction of the outer steel shell and the installation of the doors and hardware are complete. For the second transfer building, construction of the outer steel shell is 85% complete and installation of the doors and hardware is complete.



Recent drilling progress includes (listed by operable unit):

- *100-NR-2*: Drilling on 171 wells to expand the apatite barrier continued with 50 wells in progress, 50 wells drilled to total depth, and 24 wells constructed and developed. Development of the shallow wells will continue when the river elevation is sufficient.
- *100-HR-3*: In the D Area, a total of 14 wells will be drilled to support the new DX Groundwater Treatment Facility. To date, 11 wells are in progress with 9 of the 11 wells being drilled to total depth, and 8 of the 11 wells being constructed and developed. The remaining well locations are being prepared for drilling activities.
- *200-BP-5*: Drilling on two of the three planned wells continued last week with current depths of 315 and 360 feet, respectively.
- *200-ZP-1 Expansion*: Drilling operations continued on 17 wells in support of the new 200 West Groundwater Treatment Facility with eight wells in progress and five of those wells drilled to total depth. Of the five wells, two wells have been constructed and developed and the other 3 wells have been drilled to 475 feet, 133 feet, and 156 feet, respectively.
- *100-BC-5*: Drilling continued on three of the four planned wells. To date, one well has been drilled to total depth and the other two are currently at 102 feet and 174 feet, respectively.



Photo 8

Drillers move a casing for a well being drilled at the 200-BP-5 drill site, where CHPRC is drilling on two wells. As of the first week of January, the wells have been drilled to depths of 315 and 360 feet, respectively.



Photo 9

*A worker exits a drill site in the 100-NR-2 operable unit. The cones mark the location of boreholes for some of the 50 wells that will support the expansion of the apatite barrier to better contain a strontium-90 contamination plume.*





Photo 10

*A driller purges a well at the 100-BC-5 drill site, where drilling on three of four planned wells is in progress. The wells are being installed to help remediate chromium contamination in the 100 Area.*



Photo 11

*A driller, technical representative, and geologist discuss a well design for a well at the 200-ZP-1 site, where CHPRC is currently drilling 17 wells to support the new 200 West Groundwater Treatment Facility that is under construction with \$80 million of Recovery Act funding.*

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

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

### *U Canyon*

Inside the U Canyon, six process cells have been filled with 35% of the large canyon equipment planned to be relocated into the below-grade process cells. Workers continued re-grading the access road to the railroad tunnel to support future transfers in and out of the canyon. To date, several components including the gamma scan camera, spreader bars, and additional railing material have been transferred into the canyon via the railroad tunnel. Also in the U Canyon, plans for the disposition of the D-10 tank in Cell 30 are being reviewed. The D-10 tank was previously identified as containing highly radioactive material that must be disposed of before demolition of the canyon can begin.

### *U Plant Ancillary Facilities*

In parallel, asbestos abatement work continued to prepare the U Plant Ancillary facilities, 224-U and 224-UA, for demolition later this fiscal year. In 224-UA, work is concentrated on asbestos removal from the calciner area. At 224-U, asbestos abatement glove bag installation and asbestos removal continued.



### *200 East Core Industrial Buildings*

Walk downs and engineering activities continued to support planning for cold and dark isolation of nine buildings to be demolished in the 200 East core industrial area during FY 2010. Recent progress includes:

- Radiological surveys completed for Building 2701M
- Bio-hazard cleanup and radiological surveys completed for Building 272ET
- Initial beryllium sampling completed and walk downs and sampling for industrial/health hazards initiated for Building 284E.

### *209-E Criticality Mass Laboratory*

The 209-E project continues to place contracts for Mission Support Alliance support, to order burial boxes, and to train/qualify personnel for facility entry to perform detailed work schedule planning. Recent cleanout preparations included development of the safety basis documents, fire hazards analysis, environmental documents, waste profiles, and procedures. The engineering design for the contamination containment structure is being completed now that the vendor's comments have been received for review. The Radiological Controls and the Operations organizations will review the design to enable ordering of the structure to proceed. Development of the draft Startup Notification Scoring documentation for submittal to the U.S. Department of Energy was also initiated.

### *Heavy Equipment Procurements*

Receipt of the heavy equipment released from the Yucca Mountain site for accelerated D&D on the Central Plateau is complete. Additionally 35 pieces of heavy equipment have been procured and received, six pieces of heavy equipment are being fabricated, and specifications are being prepared for the remaining pieces of equipment. Delivery of the fabricated equipment should be complete by March 2010.



Photo 12

*A worker applies contamination fixative to equipment in the U Canyon. The fixative coating prevents loose surface contamination on the equipment from dispersing while the equipment is being relocated into one of the below-grade process cells.*

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

##### *Facility D&D*

An environmental sampling plan has been approved for the sites of the former 200 North interim fuel storage buildings (212-N, -P, and -R) and sampling will be performed next week to support future backfilling and re-vegetation of the sites.

Mobilization activities are complete on the Arid Lands Ecology Reserve (ALE) and cleanup of the 168 debris sites throughout the ALE reserve has started. For facilities on lower ALE, demolition is almost ready to begin now that demolition preparations, including facility walk downs, and asbestos abatement activities are complete. The walk downs confirmed that, among other required conditions, cold and dark isolations were complete, electrical and plumbing systems were terminated, and oil was drained from miscellaneous equipment. On upper ALE, cold and dark isolation activities are ongoing.



Photo 13

*A walk down team enters a building on the lower Arid Lands Ecology Reserve. The team completed walk downs of seven facilities on Jan. 6 to determine whether the facilities are ready for demolition.*





Photo 14

*A walk down team verifies that systems are disconnected in a facility on the lower Arid Lands Ecology Reserve. Before demolition can begin, workers must confirm that the buildings are isolated from various support systems.*





Photo 15

Workers walk down the interior of one of 14 facilities on the Arid Lands Ecology Reserve that CHPRC plans to demolish with Recovery Act funding to support reduction of the Hanford Site cleanup footprint.

#### Waste Sites

Recent progress in remediation of outer zone waste sites includes (listed by operable unit or site):

- **200-MG-1:** Preparations and field remediation continued on waste sites 600-218, 600-36, 600-38, 600-275. The development and processing of the Response Action Completion Reports for closing waste sites 200-E-110, 600-21, and 600-51 are also in progress.
- **200-CW-3:** Remediation continued at the 216-N-1 waste site, with approximately 1,500 tons of contaminated soil shipped to ERDF. Remediation was initiated at the 216-N-4 waste site with

approximately 490 tons of contaminated soil shipped to ERDF. Super dump trucks are being utilized to transport the contaminated soil to ERDF.

- *BC Control Area:* Remediation of the BC Control Area continued with approximately 18,000 tons of contaminated soil shipped to ERDF. An additional super dump truck is now on site and will be utilized at this site.



Photo 16

*Workers prepare to survey a super dump truck leaving the 216-N-4 waste site in the 200 North Area. The trucks have helped CHPRC transport approximately 490 tons of contaminated soil from the 216-N-4 waste site to the Environmental Restoration Disposal Facility.*





Photo 17

*Excavation continues at the 216-N-4 waste site. Sampling conducted in 2009 confirmed that this site, as well as two others in the 200 North Area, require remediation.*

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

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

#### *Facility D&D*

Approximately 50 percent of the internal structures and fixtures have been demolished or removed from the 183.2 KW Sedimentation Basin. Additional progress at the 183KW Sedimentation Basin complex includes asbestos removal in 183.7KW Pipe Tunnel and demolition preparations for the 183.1 KW Headhouse, including removal of the liquid alum lines.

Also in the 100 K Area, cold and dark conditions were achieved in the 115KE building, which allowed characterization of the building to proceed. Characterization sampling was completed and will help identify worker hazards for the upcoming demolition. Analysis of the samples is in progress. Asbestos removal preparations for the below-grade structures of the 1706KE building also continued.

Electrical circuit tracing continued to complete isolation of the 105KE Reactor building. Evaluation of the circuitry indicates that an electrical outage (scheduled for Jan. 22-24) will be necessary to complete the electrical isolation. The outage will complete the cold and dark activities for the 105KE, 116KE, and 117KE buildings.

Removal and packaging of tooling and debris from the K West basin continued with 24 debris units removed during this reporting period.

Preliminary Design activities for the disposition of the 105KE Reactor core continued. The reactor graphite tumble test was completed and is being independently reviewed. Separately, ground surveys were performed to determine elevations and spatial relationships of the areas to the south and east of the reactor building.



Photo 18

*Snow-covered debris in the 183.2 KW Sedimentation Basin, where demolition is in progress to provide access for the sampling team and equipment to enter the basin. Results from the sampling will determine disposal requirements for the demolition debris.*





Photo 19

Workers separate iron from concrete debris in the 183.2 KW Sedimentation Basin. This will allow CHPRC to recycle the concrete, pending confirmatory sampling results. CHPRC is using Recovery Act funding to accelerate removal of the basin to provide access to the soils underneath the basin floor.

### Waste Sites

Recent progress in remediation at the 100K Area waste sites includes (listed by waste site):

- *UPR-100-K-1*: The configuration of the work site was adjusted to allow radiological control technicians to conduct dose rate sampling of additional areas near the basin walls and to sample soil at the bottom of the excavation.
- *100-K-56, 100-K-3, and 100-K-47 Pipelines*: Work continued to remove overburden and truncate lines that potentially feed the 100K outfall from the 105KE area. The four pipes were located and were approximately 30 feet south of their designed location, as indicated on drawings. Removing the overburden will continue and ultimately the pipelines will be removed.
- *100-K-63 and 100-K-64*: Soil samples were obtained and preliminary sample results have been returned for the 100-K-63 waste site, but the results have not been officially released. Samples for 100-K-64 were shipped to the laboratory for analysis last week, and results are forthcoming.



Photo 20

*Radiological control technicians conduct dose rate sampling near the basin walls and sample soil at the bottom of the excavation in the UPR-100-K-1 waste site, located beneath the former K East Fuel Storage Basin.*

## UPCOMING EVENTS

### RL-0011 Nuclear Materials Stabilization & Disposition

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

- Remove the fifth and last glove box from room 146.
- Complete process equipment removal from three glove boxes in room 136.
- Complete radiological surveys of glove box HC-230C-3 to validate the effectiveness of decontamination, and initiate decontamination of HC-60.
- Complete process equipment removal on glove boxes HC-230C-2, HA-19B1, and HA-19B2.
- Initiate process equipment removal from glove boxes HA-46 and HC-227S.
- Reassess the radiological status of and determine a disposition path for three additional glove boxes previously removed from room 137 of the Analytical Laboratory.
- Continue deactivation of excess safety showers and lights in the 234-5Z building.
- Complete mechanical isolation and removal of the storage tank on the 2731-ZA nitrogen generator facility.



## RL-0013 Solid Waste Stabilization & Disposition

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

- Planned shipment of 4.8 m<sup>3</sup> (16 drums) of MLLW, Toxic Substances and Control Act (TSCA) MLLW, and TSCA LLW on Jan. 12 from the CWC to Perma-Fix East.
- Planned shipment of 1.2 m<sup>3</sup> (6 drums) of MLLW and TSCA MLLW on Jan. 12 from the Waste Receiving and Processing Facility (WRAP) to Perma-Fix East.
- Planned shipment of 6.3 m<sup>3</sup> (20 drums) of MLLW debris on Jan. 14 from WRAP to PFNW.
- ERDF “Self Perform”:
  - Moving new (unused) containers from the B/C area to the new Container Maintenance Facility lay down yard.
  - Support various generators with container movements.
  - Ship roll-on/roll-off containers with identified weld issues to PFNW for repairs.
  - Container Maintenance Facility:
    - Begin the erection of the Container Maintenance Facility.
    - Complete the trenching for the installation of the electrical conduit.
    - Install lights prior to raising light poles into place.

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

- 3A Trench 17:
  - Continue excavating around the base of Box 3 and preparing the box for removal.
  - Continue removing the lid of Box 82 in preparation for removing waste contents.
  - Prepare work package and conduct a Hazard Review Board for over-packing the contents of Box 82.
- 3A Burial Grounds:
  - Complete GPRM of Trench 8.
  - Complete SUMMA canister sampling of Trenches 5 and 8.
- Alpha Caisson Retrieval:
  - Resolve and incorporate review comments on the CDR.
  - Finalize the CDR and release documents on Jan. 31.

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

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

- Continue construction of the DX Groundwater Treatment Facility.
- Continue drilling at 200-ZP-1, 100-HR-3-H, 100-HR-3-D, 100-BC-5, and 100-NR-2.
- Continue developing decision documentation.

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

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

- Receive delivery of the remaining D&D heavy equipment.
- Continue asbestos abatement and demolition preparations for U Plant ancillary facilities.
- Continue relocating equipment from the canyon deck into the cells.
- Complete radiological surveys and initiate cold and dark isolation of the nine 200 East Area core industrial buildings.
- Complete detailed planning for cleanout of the 209-E building.

- Order the contamination containment structures.

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

- Complete surveys and environmental sampling at the site of the former 212 building sites, backfill the excavations, and re-vegetate the areas.
- Begin demolition of the lower ALE facilities.
- Continue cold and dark isolations of upper ALE facilities.
- Continue remediation of the BC Control Area and the 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 183.2 KW Sedimentation Basin.
- Complete asbestos and alum line removal from the 183.1 KW Headhouse.
- Continue Preliminary Design activities for the disposition of the 105KE Reactor.
- Perform KE reactor graphite characterization sampling.
- Finalize the reactor graphite tumble test report.
- Continue tooling and debris removal from the KW basin.
- Continue remediation of the soils beneath the former K East Fuel Storage Basin and the pipeline waste sites (100-K-47, 100-K-56, and 100-K-3).