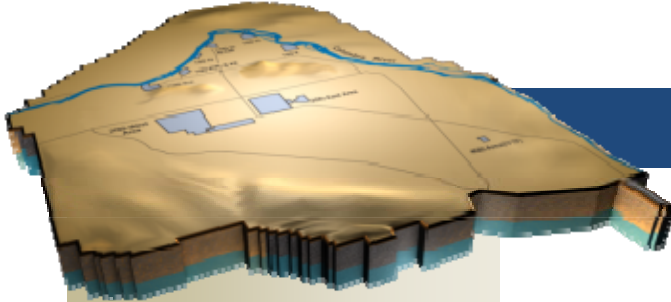


# ARRA Weekly Report



**Week Ending April 23, 2010**

April 27, 2010  
Contract DE-AC06-08RL14788  
Modification M047  
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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 (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

To date, workers removed 52 glove boxes and hoods from their originally installed locations at PFP using Recovery Act funds. Forty of the 52 have been shipped out of PFP for treatment or disposal, seven are loaded and awaiting shipment, and five are staged for future size reduction and disposal as TRU waste. CHPRC completed shipments of over 1,000 cubic meters of waste from PFP including 859 cubic meters of MLLW and LLW, 124 cubic meters of TRU waste, and 21 cubic meters of non-radioactive waste.



Photo 1

A worker secures a load of 36 drums containing low-level and mixed low-level waste that will be shipped to Perma-Fix Northwest. As of April 23, CHPRC has shipped over 1,000 cubic meters of waste from the Plutonium Finishing Plant as part of the Recovery Act-funded effort to clean and prepare the facility for demolition three years ahead of the Tri-Party Agreement Milestone of 2016.

#### Laboratory areas

Two hoods were separated from building ventilation, removed from room 148 of the Analytical Laboratory, and loaded into shipping/disposal containers. An eyewash station was removed from outside room 136, which will allow the doorway to be expanded and three glove boxes were removed for disposal. Equipment removal is continuing from six other glove boxes and hoods in room 139.

In the Standards Laboratory, the last hood was isolated from building ventilation and prepared for removal. Beryllium clearance samples were taken from throughout the laboratory. Once analysis confirms that no beryllium contamination is present, eight glove boxes and hoods staged in this area will be transferred to waste operations and loaded for shipment out of PFP.

*Plutonium processing areas*

The final two sections of large glove box HC-230C-2 were removed from 234-5Z building. One of the sections was loaded into a container for disposal at the Environmental Restoration Disposal Facility (ERDF), and the other was transferred to the 212-Z lag storage area for D&D training use.

Preparations continued toward removal of glove box HC-60; fixative was applied to the interior and the glove box was prepared for isolation from building ventilation.

Process equipment removal continued on glove boxes HA-28 and HA-46. Non-destructive assay (NDA) measurements were completed on glove box 400, which confirmed it can be disposed of as LLW.

Final corrective actions are under way in response to the nitric acid exposure in room 227 that occurred in late March, and work is expected to resume shortly on equipment removal from glove boxes in that room.





Photo 2

*Process equipment removal continues on glove box HA-28. In previous weeks, workers size reduced a conveyor that ran the length of the glove box and began removal of the belt in sections through the glove ports.*

*2736-Z/ZB Vault Complex*

Decontamination of the main glove box in room 636 is complete and final radiological surveys are under way to verify that the box can be removed and disposed of at ERDF as LLW. Process equipment removal continued in glove boxes located in room 642; currently work is ongoing on small pieces of equipment pending installation of a new panel with a larger load-out port for larger and heavier equipment.

*242-Z Americium Recovery Facility*

The 242-Z D&D team completed photographing and inspecting fire systems in the control room. The containment tents supporting the entrances to both the control room and the tank room were removed for replacement due to wear and tear. Preparations are under way to re-enter the tank room to remove the small quantity of combustibles that were observed during the initial entry last week and to begin application of contamination fixative in the control room.

*Infrastructure, process support systems, and equipment removal*

Training and mockup activities for the D&D of 5,000 feet of heavily contaminated process vacuum system piping running throughout the 234-5Z and 291-Z facilities were completed. Performance evaluations of the crew will be initiated next week. Work process improvements to better ventilate the work areas of potential chemical vapors and to facilitate removal of cut pipe from the work areas are continuing. NDA measurements are being completed well ahead of the planned work, with approximately 220 additional feet measured this past week, and 62 percent of the entire system assayed to date.

Crews are also progressing in the removal of abandoned steam piping from the 291-Z facility to clear the way for future D&D work and removal of asbestos insulation.

PFP insulators removed 140 feet of asbestos insulation in the 234-5Z building this past week, bringing the total removed from PFP with Recovery Act funds to more than 9,000 feet.

Five waste shipments were completed last week with approximately 50 cubic meters of waste shipped for treatment/disposal, including:

- 2 drums of hazardous materials for recycling
- 1 container of LLW to ERDF
- 14 boxes of LLW to Perma-Fix Northwest (PFNW) and
- 8 drums of MLLW to PFNW.

Field construction forces are actively installing a supplemental cooling system to improve safety and working conditions during D&D of the process facilities in the summer. Work to install piping and hangers is in progress on the third floor of the 234-5Z building, and installation of electrical equipment in the yard area is continuing. Removal of the former vehicle barrier surrounding the PFP complex continued and only a short section remains on the east side of the plant.

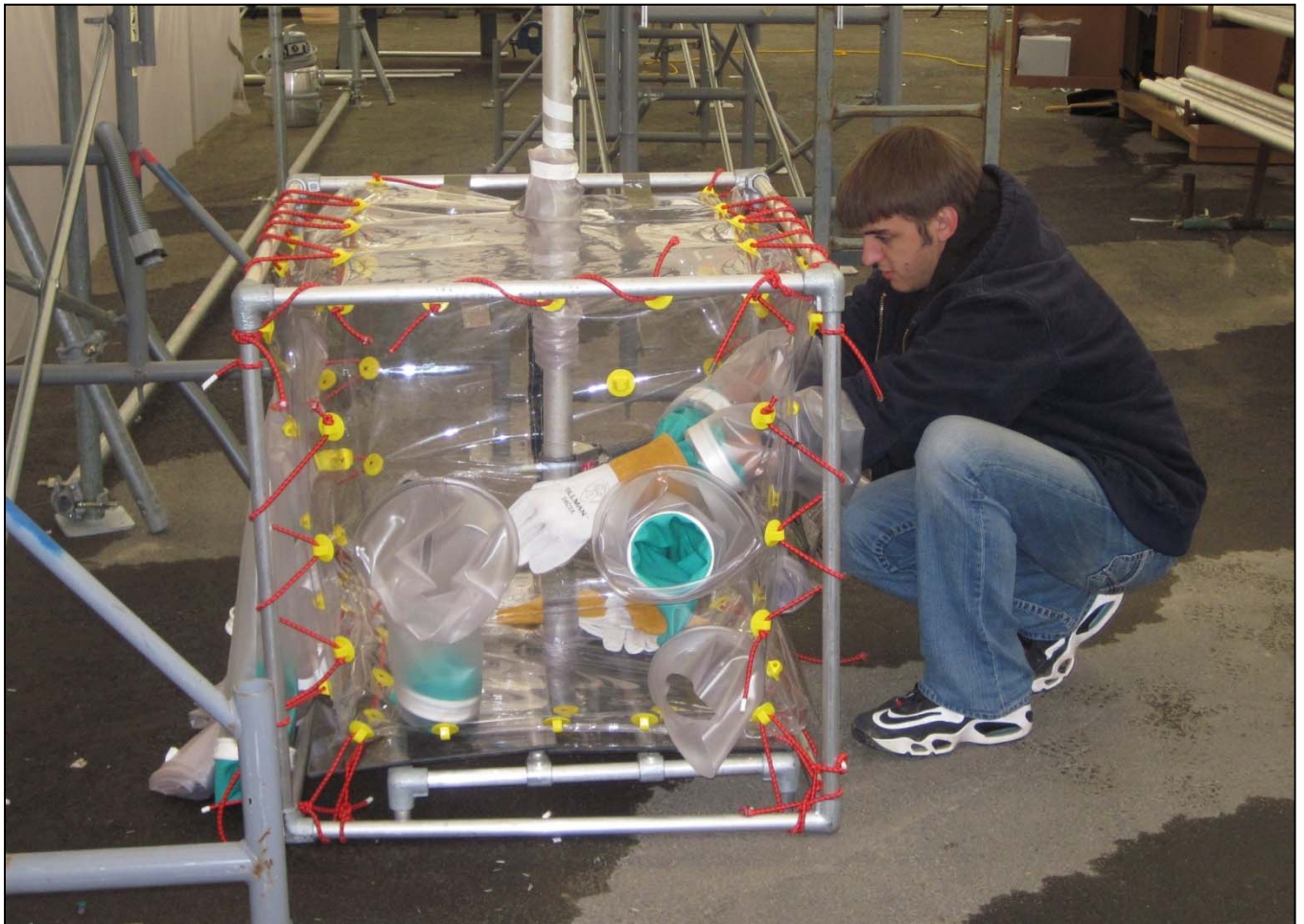


Photo 3

*A worker prepares for the upcoming removal of 5,000 feet of highly contaminated process vacuum piping using a mock-up glove bag and containment box built for final training at the Plutonium Finishing Plant.*





Photo 4

*Workers prepare a mock-up glove bag that will be used to size reduce process ducting. The glove bag protects workers as they disassemble sections of the ductwork so that it can be removed for disposal.*



Photo 5

Workers prepare the future site for a supplemental cooling system that is being installed to improve safety and working conditions in the Plutonium Finishing Plant process facilities during the summer months.

## 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 treatment and disposal under the Recovery Act:

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

Five shipments of waste were sent out for treatment this week: three drums (0.7 m<sup>3</sup>) of LLW debris were sent from the Central Waste Complex (CWC) to PFNW. Thirty-three drums (9.7 m<sup>3</sup>) of MLLW debris, previously classified as TRU waste and another three drums (0.6 m<sup>3</sup>) of LLW debris were shipped from the Waste Receiving and Processing Facility to PFNW. All three shipments were sent on April 20. One box (6.4 m<sup>3</sup>) of MLLW debris and 3.7 cubic meters of waste including, 11 drums of MLLW debris and four drums of LLW debris were shipped on April 22 from CWC to PFNW. The MLLW debris will be non-thermally treated through macro encapsulation while the LLW debris will be volume reduced and stabilized. Both of these waste streams will be packaged for disposal in Hanford's Mixed Waste Disposal Units.





Photo 6

*A teamster loads 11 drums of mixed low-level waste (MLLW) debris and four drums of low-level waste (LLW) debris to be shipped from the Central Waste Complex to Perma-Fix Northwest. The MLLW will undergo macro encapsulation while the LLW will be volume reduced and stabilized. Both waste streams will be packaged for disposal in Hanford's Mixed Waste Disposal Units.*



Photo 7

A teamster inspects the bracing straps for a shipment containing one box (6.4 m<sup>3</sup>) and 11 drums of mixed low-level waste debris and four drums of low-level waste debris (11 m<sup>3</sup>). This shipment was sent from the Central Waste Complex to Perma-Fix Northwest.

#### ERDF "Self Perform" Project

The management assessment of the Container Maintenance Facility has been issued. The Operations group is preparing to establish a daily routine at the Container Maintenance Facility beginning with gasket replacements on several roll-on/roll-off containers. All 14 new roll-on/roll-off trucks are on-site. Ongoing activities associated with the Container Maintenance Facility are now under the control of the Operations group and the ERDF "Self Perform" Project is complete.

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

##### TRU Retrieval

Corrective Action Plan activities continued to support the resumption of waste retrieval activities. The Retrieval Corrective Action Plan was presented to the Executive Safety Review Board and the final close-out of the pre-start actions is in progress.

The TRU Retrieval group supported the repackaging planning for Boxes 80 and 82 and the Box 3 checklist activities. These three boxes are located in the 3A Burial Grounds, Trench 17. The 3A Trench 17 Retrieval Plan RP-1 was approved and planning for the 3A Trench 8 start-up began. Work continued



on transferring the documentation of existing secondary waste containers to comply with new procedure, SW-100-135. Work continued on the recovery plan to move boundaries inward for 4B Trench 11 and the procurement of necessary equipment for the 4B Trench 11 Recovery Plan was initiated. A walk-through of revised excavation procedures was performed in the Simulation Test Site (STS) Trench.

Metal detector training for nuclear chemical operators was performed in the STS Trench and 3A team members attended a long-reach tool demonstration by Intellegation, LLC. Field teams attended industrial hygiene briefings regarding new sampling and monitoring requirements during container removal activities.

The disassembly of the 4C Process Area tent was completed. Structure and ecology blocks are now being removed from the 4C Process Area and the set-up of the Mobile Decontamination Unit (MDU) continued.

#### *Alpha Caisson Retrieval Project*

The Safety Design Integration Team conducted a technical review meeting to come to an agreement on hazard controls and all but three issues were resolved. Nuclear Safety is taking the lead to close these issues prior to the issuance of the Conceptual Safety Design Report (CSDR) on May 13. The Field Execution Schedule update was completed and recommendations from the Waste and Fuels Management Project on optimization studies have been finalized and forwarded to design contractors for integration into the designs.

Acquisition plans from the ARES Corporation and AREVA are being evaluated and the development of advance procurement request that will accompany the CSDR submission to DOE was initiated. This early request, if approved by DOE, will mitigate schedule impacts later on in the project.

#### *TRU Project Drum Repackaging*

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

- 1,186 drums (246.8 m<sup>3</sup>) have been repackaged.
- 19 TRUPACT-II shipments [910 drums and 14 standard waste boxes (166 m<sup>3</sup>)] have been shipped.

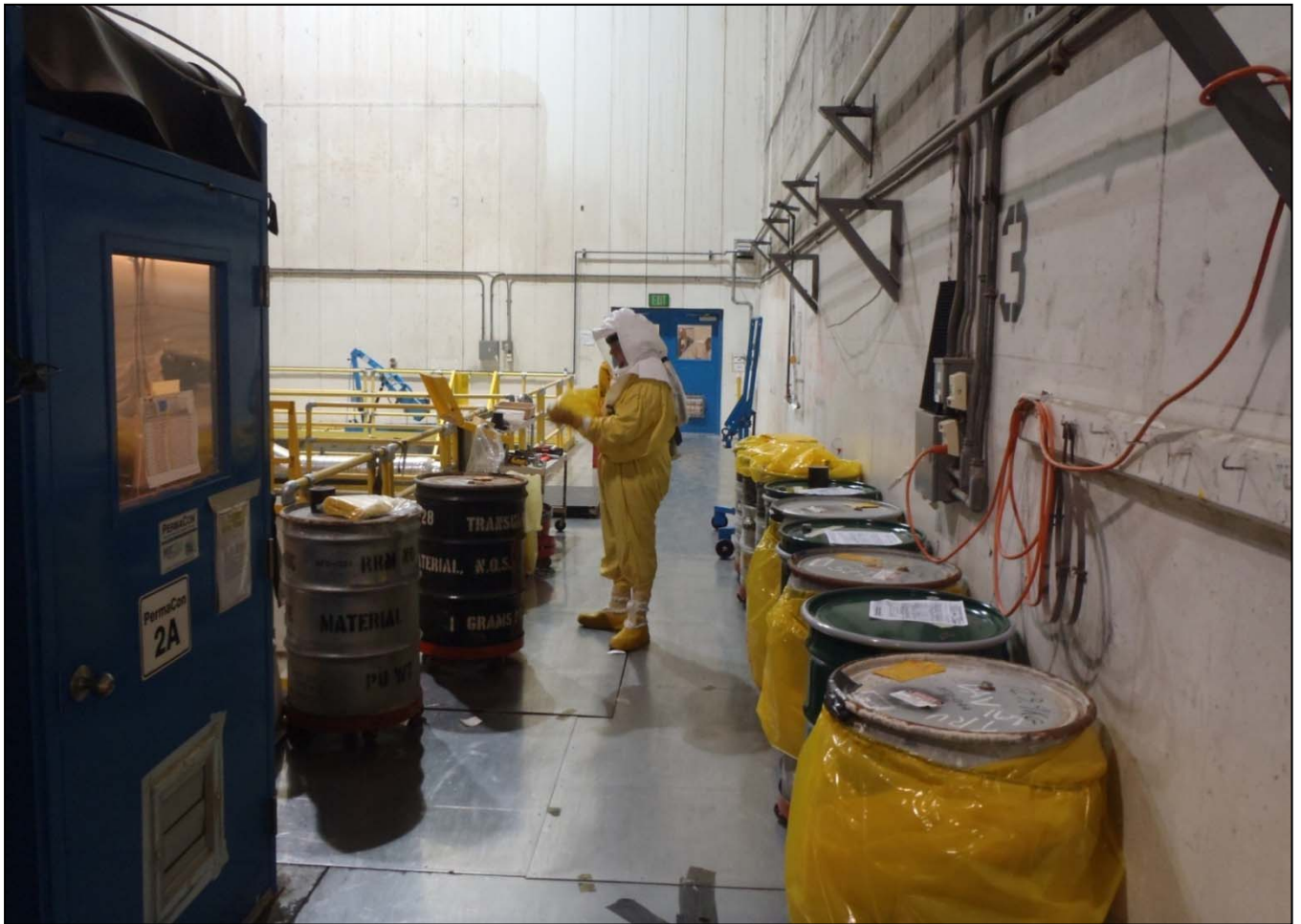


Photo 8

*A nuclear chemical operator prepares drums for repackaging at the T Plant Canyon. To date, 1,186 drums (246.8 m<sup>3</sup>) have been repackaged.*



Photo 9

*A worker prepares a TRUPACT-II shipment prior to departure from the Waste Receiving and Processing Facility to the Waste Isolation Pilot Plant. The Transuranic (TRU) Program began shipping standard waste boxes this week and will continue their TRUPACT-II shipments using a combination of containers.*

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

RL-0030.R1: Central Plateau Soil & Groundwater

### *200 West Groundwater Treatment Facility*

The design activities for the 200 West Groundwater Treatment Facility continued and are expected to be completed at the end of the month. The initial stages of construction continued with 68 percent of the high-density polyethylene (HDPE) piping road crossings completed, approximately 53 percent of the HDPE pipe installed, and 15 electrical power racks fabricated and placed at the extraction well sites. Mobilization of the construction contractor for completing the installation of the transfer building shells was completed and the contractor began the earthwork for the first transfer building.



Photo 10

Progress continued on the initial construction phase of a transfer building for the 200 West Groundwater Treatment Facilities. The contractor mobilized and will construct four transfer buildings that will support the new facility.

#### *DX Groundwater Treatment Facility*

The Society of Environmental Journalists toured the Hanford Site on April 23 and visited the DX Groundwater Treatment Facility, one of two pump-and-treat systems CHPRC is constructing with Recovery Act funding to remediate contaminated groundwater. The Society of Environmental Journalists is an organization of journalists with a mission to raise awareness and strengthen news coverage on environmental issues.

Electrical, mechanical, and process equipment is being mobilized and installed in the process and two transfer buildings comprising the DX Groundwater Treatment Facility. The progress is listed below.

Building	Electrical Equipment (% complete)	Mechanical Equipment (% complete)
Process	55%	60%
Transfer (M1)	80%	95%
Transfer (M2)	55%	65%





Photo 11

*Dyan Foss, the vice president of CHPRC's Soil and Groundwater Remediation Project, meets with the members of the Society of Environmental Journalists during their tour of the Hanford Site on April 23. The construction site of the Recovery Act-funded DX Groundwater Treatment Facility was one of the many stops on their tour.*



Photo 12

The treatment tanks for the DX Groundwater Treatment Facility arrive for installation in the process building. The tanks are part of the DX pump-and-treat system's innovative resin filter system that is expected to save \$20 million in lifecycle costs.

### Well Drilling & Decommissioning

Planning activities are in progress for installing wells in the 100-KR-4 (17 wells), 100-HR-3 (34 wells), 100-BC-5 (6 wells), and 300-FF-5 (11 wells) operable units. The following table showcases recent 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-NR-2	Expand the apatite barrier to better contain a strontium-90 plume along the Columbia River (171 wells)	162	162	90
100-HR-3	Support the optimization of removal of chromium (16 wells)	14	13	7
M-24	Support characterization of the aquifer (5 wells)	2	2	-
200-ZP-1	Support the 200 West Groundwater Treatment Facility that will primarily treat carbon tetrachloride contamination in the groundwater (17 wells)	11	8	6
Site-wide	Decommission wells that are no longer of service <sup>3</sup> (350 wells)			80

<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> Wells that are inactive or no longer of service are filled with grout (or other materials such as sand or clay), the casing is removed, and a cap or marker is installed to indicate where the well was previously located.

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

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

#### *U Canyon*

The focus for the week was to conduct a radiological survey of the canyon walls and ceiling. The survey of the walls was completed up to eight feet above the deck. Forty percent of the ceiling was also surveyed. Cells 17 and 24 were opened and cells 22 and 23 were closed. Eighty-five percent of the large tracked items have been placed in the cells. Further equipment movement into cells depends on the repair of the phase B electrical conductor at cell 31, which precludes any crane operations south of that location. The repair is scheduled for next week along with annual crane preventive maintenance activities. The grout system design and sequence for future grouting activities have been drafted. Repairs continued on the emergency lighting and doors to bring the facility in compliance with Life Safety Code requirements. Discussions continued regarding various aspects of shipping the D-10 tank in cell 30 to T Plant.

#### *U Plant Ancillary Facilities*

Asbestos abatement in the 224-U and 224-UA buildings is complete. Final clean up and de-mobilization of the asbestos equipment should be complete next week. Inspections and fixative application to the potential high hold-up locations continued. Demolition planning, equipment movements, and preparations are in progress.

#### *200 East Core Industrial Area*

Entries into the 284-E Powerhouse continued to support preparation of the Waste Identification Form and cold and dark activities. Asbestos abatement continued on exterior piping of the Powerhouse. Construction of the asbestos containment systems and scaffolding continued. Final preparations for demolition continue for MO-104 and MO-840.





Photo 13

*Glove bags are installed for asbestos abatement on the east side of the 284-E Powerhouse.*

### *209-E Criticality Mass Laboratory*

The internal document review was completed and comment resolution began for the Facility Hazards Analysis, Documented Safety Analysis (DSA), Notice of Construction (NOC), and Criticality Safety Evaluation Report. Comment incorporation will be complete this week and the final CHPRC review and approval process will begin next week. The facility was evaluated for Life Safety Code compliance and several areas were identified that needed to be addressed to change occupancy from the annual surveillance and maintenance mode to the activities authorized by the DSA and NOC. Efforts are ongoing to install temporary and emergency lighting to the facility as well as exit signs and fire extinguishers. Once these activities are complete the team will proceed with characterization and housekeeping activities. Drawings are being reviewed for facility isolation to support demolition. Contracts are being placed for NDA support and trailers for personnel are being procured.



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

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

Removal of the foundations from the former lower ALE facilities is complete and the area is being contoured to match surrounding grade. Demolition preparation on five of the upper ALE facilities is continuing. Cold and dark isolation activities of the ridgeline communication structures on upper ALE are continuing. Cleanup of debris sites throughout the ALE reserve is ongoing.



Photo 14

The lower Arid Lands Ecology Reserve after demolition of eight facilities. The site is being contoured to match the surrounding grade.



Photo 15

Workers hang signs to mark hazards at the former sites of facilities on the lower Arid Lands Ecology Reserve. The buildings were demolished in early 2010 and the site is now being contoured.

#### 212-NPR Interim Fuel Storage Building D&D

The final closure documentation for 212-N, -P, and -R interim fuel storage buildings is being prepared.





Photo 16

The former sites of the 212-N, -P, and -R interim fuel storage buildings that were demolished last year and were recently backfilled and contoured over the last few weeks.

### Waste Sites

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

- 200-MG-1
  - 600-36: Verification samples were taken and the results will determine if the remedial action goals have been achieved.
  - 600-37: Sampling activities continued.
  - 600-38: Confirmatory sampling was completed and the data report indicated the waste site requires retrieve, treat, and dispose (RTD) processes. Planning for RTD continued.
  - 600-40: Verification samples were taken to determine if the remedial action goals have been achieved.
  - 600-218: Confirmatory sampling was completed and the data report indicated the waste site requires RTD.
  - 600-262: Confirmatory sampling was completed and the data report shows the waste site can be down-posted from an Underground Radioactive Material Area.
  - 600-281: The cultural report is complete and planning for sampling continued.
  - 200-W-33: A data report is being generated from the confirmatory sampling.
- 200-CW-3
  - 216-N-1: Closure documentation is being prepared for DOE and Regulatory approval.



- 216-N-4: Remediation continued with three super dump trucks having delivered approximately 19,700 tons of contaminated soil to ERDF.
- *BC Control Area*
  - Remediation continued with seven super dump trucks having delivered approximately 93,800 tons of contaminated soil to ERDF. For Zone A and Zone B, approximately 24 and 850 acres have been remediated, respectively.



Photo 17

*A super dump truck is surveyed before leaving the BC Control Area for the Environmental Restoration Disposal Facility. A total of seven super dump trucks are in service at the BC Control Area and have helped CHPRC dispose of approximately 93,800 tons of contaminated soil from the waste site.*

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

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

### *Facility D&D*

Demolition of the 183.2KW Sedimentation Basin floor continued and the resulting rubble is being stockpiled. Demolition continued on the 183.3KW Filter Basin. A new excavator was received and will be used in the demolition of the 183.7KW Pipe Tunnel.



Photo 18

*Rubble from the 183.2KW Sedimentation Basin floor is stockpiled for future use as fill material.*





Photo 19

*A large excavator is prepared for assembly in the 100K Area. The excavator will be used in the demolition of 183.7KW Pipe Tunnel.*

Dose rate surveys were conducted for debris in the 105KW Fuel Storage Basin in preparation for additional debris removal. A total of 610 debris units have been removed to date.

Duct installation continued in the 105KW Fuel Storage Basin facility for upgrading the 105KW heating, ventilation, and cooling (HVAC) system. Upgrading of the HVAC system will provide for improved employee comfort and airborne contamination control. About 65 feet of duct has been installed thus far. Scaffold construction to support duct installation continued as well.





Photo 20

*Ducting is being installed in the 105KW Fuel Storage Basin facility as part of heating, ventilation, and cooling system upgrade that will provide for improved employee comfort and airborne contamination control during activities in the 105KW facilities.*

Final cleanup and asbestos sampling is being performed for the 115KE Gas Recirculation Building. Glycol removal from the 100KE systems is continuing. Planning continued for the explosive demolition of the 116KE Reactor Exhaust Stack. Asbestos abatement continued in the 1706KE and 1706KER substructures in preparation for demolition.

Preliminary design activities and document preparation for the 105KE Reactor disposition continued. A Hazard Review Board meeting was conducted for the core boring activities and it was determined the work could proceed. An existing reactor port was accessed to obtain visual and radiological information. Initial radiological readings align well with planning calculations. Materials needed to support core boring are being assembled. Hazardous materials in the 105KE Reactor building continue to be identified and removed.

#### *Infrastructure Utilities Upgrade Project*

Isolation of the 100K Area utilities continued. The 30-day public review period for the cultural and ecological review report regarding the installation of the import water line was completed and construction of the import line was approved to move forward. Excavation documents were completed and are being approved. A traffic safety plan for locations where the import line construction will cross

roads is being prepared. Materials for the import line are being procured and staged for use.

Pipe installation for the 100K Firewater and Potable Water system continued. About 1,440 feet of firewater pipe has been installed. Backfilling and compaction has been completed for 750 feet of pipe. Asphalt saw cutting started on the near 105KW facility in preparation for installation of fire and potable water pipe to the 105KW facility. A preconstruction meeting was conducted with the contractor for the Water Treatment Facility. Submittals from the contractor are being received and processed. Fabrication of the fire pump and microfiltration unit for the Water Treatment Facility is ongoing.

Excavation of approximately 180 feet of trench was completed as part of the A9 Switchyard Site upgrade preparations. Temporary fencing was erected and three utility vaults were installed. Conduit is being delivered and staged for use. Fabrication of the 230kV Mobile Skids is continuing.

### *Waste Sites*

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

- Closure documentation is being developed 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)
- *100-K-47(Process Sewer)* – Remediation of the waste site continued with approximately 616 tons of contaminated soil delivered to ERDF.
- *100-K-56 (Reactor Cooling Water Pipelines)* – Remediation of the waste site continued with approximately 350 tons of contaminated soil delivered to ERDF.
- *100-K-63 (West Floodplain)* – Planning continued for the remediation of the waste site.
- *100-K-68 (Pump Gallery and Catch Tank)* – Remediation of the waste site was initiated with approximately 1900 tons of contaminated soil delivered to ERDF.
- *100-K-71(Collection box)* – Remediation of the waste site continued with approximately 190 tons of contaminated soil delivered to ERDF.
- *100-K-102(French Drains and Mercury Stained Soil near 183KW Sedimentation Basin)* – Remediation of the waste site was initiated with approximately 1,300 tons of contaminated soil delivered to ERDF.
- *120-KW-1 (183-KW Filter Water Facility Dry Well)* – Remediation continued with the removal of contaminated soils and demolition of structures down to six feet. The contaminated soils were placed in staging piles to determine the treatment path for the chromium contamination.

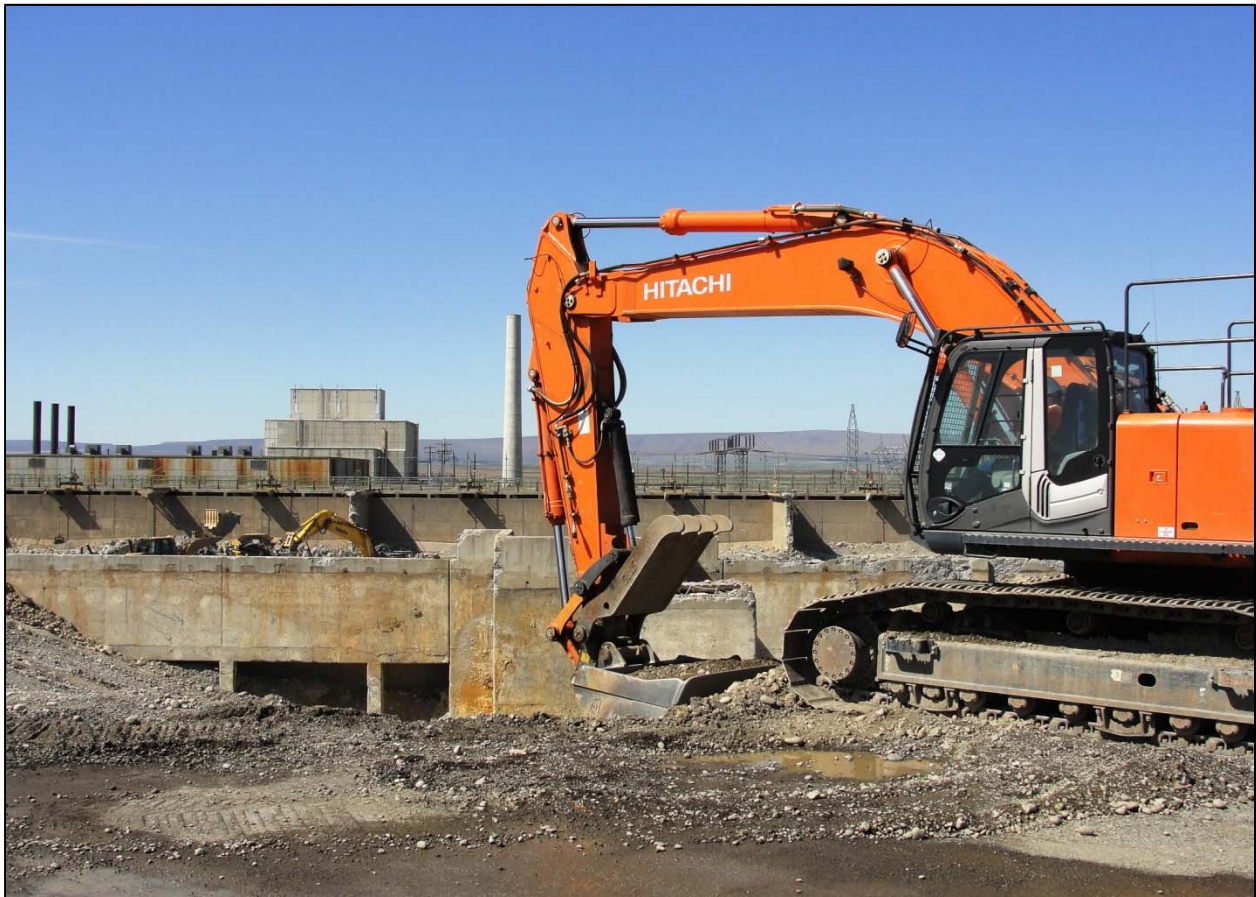


Photo 21

*Recovery Act funding is being utilized to remediate the 100-K-102 waste site that was initiated this week. The waste site is adjacent to the 100-K West Sedimentation Basin (D4 activities in the background) and will remediate chrome and mercury contaminated soil.*



## UPCOMING EVENTS

### RL-0011 Nuclear Materials Stabilization & Disposition

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

- Remove eight glove boxes/hoods from the Standards Laboratory for disposal at ERDF, complete closeout activities, and transfer the D&D team to the Plutonium Process Support Laboratory.
- Enlarge the doorway and remove three glove boxes/hoods from room 136 for NDA.
- Complete equipment removal from six glove boxes/hoods in room 139, and initiate removals from three glove boxes/hoods in rooms 141 and 188.
- Separate glove box HC-60 from building ventilation and relocate it to an area of lower radiological background for NDA.
- Remove glove box 400 from the Radioactive Digestion Test Unit area.
- Complete process equipment removal from glove boxes HA-28 and HA-46; initiate work on glove boxes 227-S, 227-T, and HC-230C-4 and C-5.
- Complete a second round of decontamination for glove box HC-230C-3 and determine what additional actions are necessary prior to disposal.
- Initiate removal of the process vacuum system piping from 234-5Z and 291-Z buildings.
- Complete radiological surveys of the 636 glove box and remove it from the 2736-ZB building.
- Continue removal of smaller process equipment from five glove boxes in room 642 and install a new glove box panel and load-out port for removal of larger and heavier equipment.
- Install new containment tents for access to the 242-Z tank room and control room, complete removal of combustibles from the tank room, and begin applying contamination fixative in the control room.

### RL-0013 Solid Waste Stabilization & Disposition

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

- No planned shipments.

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

- TRU Retrieval
  - Complete the final draft of 4B Trench 11 Recovery Plan and supporting documents for moving the boundaries inward.
  - Continue MDU set-up/start-up.
  - Complete the removal of the tent and ecology blocks in the 4C Process Area.
  - Continue box removal planning and perform a ground-penetrating radar mapping survey for 3A Trench 17.
  - Receive mobile restroom trailer and four 20-foot IP-1 storage containers for the 3A Burial Grounds.
- Alpha Caisson Retrieval
  - Revise Project Execution Plan by April 30.
  - Issue preliminary CSDR on May 13 to DOE for review.
  - Issue Project Baseline Change Request by May 30.
  - Award contract for remote retrieval system mock-up demonstration/validation on May 31.
- TRU Repack
  - Five planned TRUPACT-II shipments to the Waste Isolation Pilot Plant.

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

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

- Continue construction of the DX Groundwater Treatment Facility.
- Continue decommissioning wells across the site.
- Continue drilling at M-24, 100-HR-3, 100-NR-2 and 200-ZP-1.
- Continue planning for well installations at 100-KR-4, 100-HR-3, 100-BC-5, and 300-FF-5.

## 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 being procured.
- Complete asbestos abatement and demolition preparations for the U Plant ancillary facilities.
- Begin demolition for the U Plant ancillary facilities.
- Continue relocating equipment from the U Canyon deck into the process cells.
- Begin demolition of the 200 East Core Industrial Area facilities
- Continue planning and preparations for demolition of the 209-E Criticality Mass Laboratory.

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

- Begin final grading for the lower ALE facilities.
- Continue removal of debris sites throughout the ALE Reserve.
- Continue demolition preparations for the upper ALE facilities.
- Continue cold and dark isolation activities of the ridgeline communication structures.
- 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 the 115KE, 116KE, 117KE, 1706KE, and 1706KER buildings.
- 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.
- Continue activities for isolating 100K Area utilities to support of cold and dark preparations.
- Continue remediating soil from waste sites.