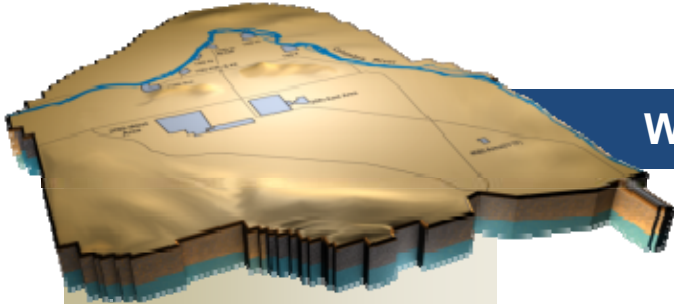


ARRA Weekly Report



Weeks Ending Dec. 17-31, 2010

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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 174 gloveboxes/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 m³ of suspect transuranic (TRU) waste, eliminate 1,800 m³ 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 265 wells that will be used for monitoring, extracting, and remediating groundwater, and decommission 280 wells that are no longer of service.

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

Across the Central Plateau and along the outer zone of the Hanford Site, CHPRC is accelerating the demolition of 34 facilities to reduce mortgage costs on buildings that are no longer of service and complete the remediation of 24 waste sites.

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

In the 100K Area along the Columbia River, CHPRC is demolishing 15 buildings and sampling and/or remediating 23 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

Seven gloveboxes were removed from PFP with support from Recovery Act funds, including six boxes from Rooms 143 and 144 of the Analytical Laboratory in the 234-5Z building, and the seventh of nine boxes from the 2736-ZB vault support facility. Ten gloveboxes were shipped out of PFP, including six gloveboxes shipped to the Environmental Restoration Disposal Facility (ERDF) for onsite disposal as LLW and four boxes shipped to Perma-Fix Northwest (PFNW) for treatment and packaging for future disposal as TRU waste.

| Structures, equipment, waste disposition | Total to Date (since April 2009) |
|---|--|
| Gloveboxes/hoods removed | 96 gloveboxes/hoods |
| MLLW/LLW shipped | 2,311 m ³ |
| TRU shipped | 361 m ³ |
| Non-radioactive waste shipped | 23 m ³ |
| Process transfer line removed | 345 feet |
| Process vacuum system piping removed | 572 feet |
| Asbestos removed | 12,444 feet |
| Ancillary structures ready for demolition | 22 fuel vaults & ancillary buildings prepared for demolition |



Photo 1

Gloveboxes 139-1 and -2 and glovebox 636, loaded in an end-loading IP-2 container, are loaded onto a truck for shipping from the Plutonium Finishing Plant. These were some of the 10 gloveboxes that left the Plutonium Finishing Plant over the last three weeks.

Laboratory & Processing Areas

Four gloveboxes were removed from the Analytical Laboratory, emptying Room 144, which once contained nine gloveboxes and hoods. Two were shipped to ERDF for disposal as LLW; the other two were staged for future size reduction and disposal as TRU waste. Three of five gloveboxes in Room 143 were cleaned out and isolated from building ventilation, and two were removed from the room. In the Plutonium Process Development Laboratory, electrical isolations were completed to support D&D of nine gloveboxes in Room 179, and work was initiated to enlarge a doorway to remove glovebox 179-5. The D&D crew in the former Radioactive Acid Digestion Test Unit area returned to removing process equipment from gloveboxes 100B and 200, which are scheduled to be cleaned out and dispositioned in place during early 2011.



Photo 2

Gloveboxes 144-1 and -2 are loaded into an IP-2 container for shipment. The gloveboxes were removed from the Analytical Laboratory of the Plutonium Finishing Plant.

In the RMA Line, gloveboxes HA-22 and HA-22I and the first two sections of the 70-foot-long HA-28 conveyor glovebox are ready for removal from Room 235B as soon as space can be made available. Chemical decontamination was initiated on glovebox HA-46 using the RadPro® product, while decontamination of nearby gloveboxes HA-19B1 and B2 continued with the newly deployed Aspigel® product. In the RMC Line, equipment removal was initiated on the HC-3 and HC-4 conveyor gloveboxes.

The new size-reduction station in Room 172 of the 234-5Z building began operations on Dec. 15, beginning with gloveboxes 139-3 and -4 from the Analytical Laboratory. The size-reduction station is

needed to cut the large gloveboxes and hoods into smaller pieces that can be loaded into Standard Waste Boxes, the largest containers currently acceptable for shipment of TRU waste to DOE's Waste Isolation Pilot Plant in New Mexico.

2736-Z/ZB Vault Complex

Glovebox 642-C was chemically decontaminated, isolated, and relocated from Room 642 to Room 636 pending transfer to Waste Operations. Work began to remove external equipment from large furnace glovebox 642-B and to prepare it for removal. Sink and restroom facilities in the radiologically controlled area of the 2736-ZB building were deactivated and removed, along with several sections of wall, in preparation for plugging and sealing the backside drain lines.

242-Z Americium Recovery Facility

The 242-Z D&D team completed several entries to install the last of the temporary light strings and prepare for D&D of the first glovebox. The team is supporting work in the RMC Line while awaiting authorization for intrusive D&D work in the 242-Z building following resolution of a concern with the ability to maintain periphery confinement during extended breathing air entries into the facility.

Infrastructure, process support systems, and equipment removal

Work continued on removal of the second segment of highly contaminated process vacuum piping in the 234-5Z building while another crew completed the removal of the third 115-foot segment of process transfer lines. The rate of waste removals from PFP continued to increase throughout December, bringing the total amount of waste removed with Recovery Act funds to nearly 2,700 cubic meters, including more than 360 cubic meters of TRU and TRU-mixed waste.



Photo 3

Eighteen drums of waste resulting from decontamination of gloveboxes are loaded for shipment from the Plutonium Finishing Plant.

RL-0013 Solid Waste Stabilization & Disposition

Repairs to the containment berm were completed the week ending Dec. 17 at the Effluent Treatment Facility. The berm is designed to contain sulfuric acid and sodium hydroxide in the event of incidental spills. The 17-year-old protective coating within the berm was removed and a new protective coating and specialty grout was applied.



Photo 4

Workers remove a 17-year-old protective coating on a containment berm at the Effluent Treatment Facility. The berm is designed to contain sulfuric acid and sodium hydroxide in the event of incidental spills. A new protective coating and specialty grout was applied.

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

Of the 1,800 m³ of MLLW and LLW planned for shipment under the Recovery Act:

- 1,093 m³ of MLLW and LLW have been shipped to date including:
 - 976 m³ that have been treated and disposed.
 - 117 m³ at offsite treatment facilities awaiting processing. Treatment is scheduled for FY11.

Three shipments went out this week from the Central Waste Complex (CWC) to PFNW. The first two shipments were sent on Dec. 16 and the third on Dec. 20. The first shipment contained two drums (0.4 m³) of LLW debris, the second shipment contained 14 drums (3.2 m³) of MLLW debris, and the third shipment contained three boxes (3.6 m³) of LLW debris. The LLW debris will be volume reduced and stabilized and the MLLW debris will be non-thermally treated by stabilization. All the waste will be packaged for disposal in Hanford's Mixed Waste Disposal Units.



Photo 5

Drums of waste are loaded onto a truck for shipment from the Central Waste Complex to Perma-Fix Northwest.



Photo 6

Workers secure drums of mixed low-level waste for shipment to Perma-Fix Northwest where the waste will be treated by macroencapsulation and packaged for disposal in Hanford's Mixed Waste Disposal Units.

RL-0013C:R1.2: Transuranic Waste

Of the 2,500 m³ of suspect TRU waste planned for retrieval under the Recovery Act:

- 179 m³ are staged, pending shipment.
- 764 m³ have been shipped to a treatment, storage, or disposal facility.

In Trench 17 of the 3A burial ground, workers completed construction of the west access ramp, excavation of Box 13, and installation of lifting plates and straps. They also completed pre-construction of the shoring box base, walls, and roof for Box 13 and lifted the base into the trench. Plywood reinforcing walls were also installed on Box 13. The portable assay of five retrieved waste containers from Trenches 8 and 17 were completed along with four secondary waste drums. One drum was shipped from Trench 8 to CWC.

In the 4B burial ground, workers began excavating three feet of overburden, reinstated the mobile Drum Venting System (mDVS) preventive maintenance (PM) work packages, and reviewed Operating Procedure SW-100-054. A High Radiation Area work package for 4B Trench 11 was developed. In the 12B burial ground, readiness was declared for the Trench Face Retrieval and Characterization System (TFRCS).



Photo 7

Two excavators begin the initial removal of the three feet of overburden soil in Trench 11 of the 4B burial ground.

TRU Project Drum Repackaging

Of the 850 m³ planned to be characterized and repackaged with funding from the Recovery Act:

- 1,963 drums (408.4 m³) have been repackaged.
- 119 TRUPACT-II shipments [1,316 55-gallon drums, 24 standard waste boxes (SWBs), two ten-drum over-packs (TDOPs), 708 85-gallon over-packs and 456 drums over-packed into 130 SWBs (563.2 m³ total)] have been shipped.

Suspect TRU Waste Shipments

Of 637 m³ of low-gram, large box TRU mixed waste planned for repackaging under the Recovery Act:

- 243.4 m³ have been shipped to date (40 m³ were shipped using Base funding).
- 152.1 m³ have been repackaged.

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

RL-0030.R1: Central Plateau Soil & Groundwater

Well Drilling & Decommissioning

The following table showcases CHPRC's recent progress in well drilling and decommissioning.

| Operable Unit | Scope (Wells to be drilled with Recovery Act funding) | In progress | Drilled to Total Depth ¹ | Completed or Developed ² |
|---------------|--|-------------|-------------------------------------|-------------------------------------|
| 100-BC-5 | Support characterization and removal of chromium (6 wells) | 5 | 3 | 2 |
| 100-KR-4 | Support characterization of the vadose zone and aquifer (13 wells) | 12 | 8 | 7 |
| 100-HR-3 | H Area: Support the optimization of removal of chromium (40 wells) | 40 | 40 | 37 |
| 100-HR-3 | H Area: Remedial Investigation/Feasibility Study Hanford Formation (15 wells) | 10 | 8 | 6 |
| 100-FR-3 | Support for Remedial Investigation/Feasibility Study characterization (3 wells) | 3 | 2 | 2 |
| 200-ZP-1 | Support the 200 West Groundwater Treatment Facility that will primarily treat carbon tetrachloride contamination in the groundwater (17 wells) | 17 | 17 | 15 |
| 300-FF-5 | Support characterization of the aquifer (11 wells) | 7 | 6 | 4 |
| Site-wide | Decommission wells that are no longer of service ³ | | | 186 |

¹ Wells are drilled to varying depths to address contaminants at different depths in the soil.

² 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.

³ 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.

200 West Groundwater Treatment Facility

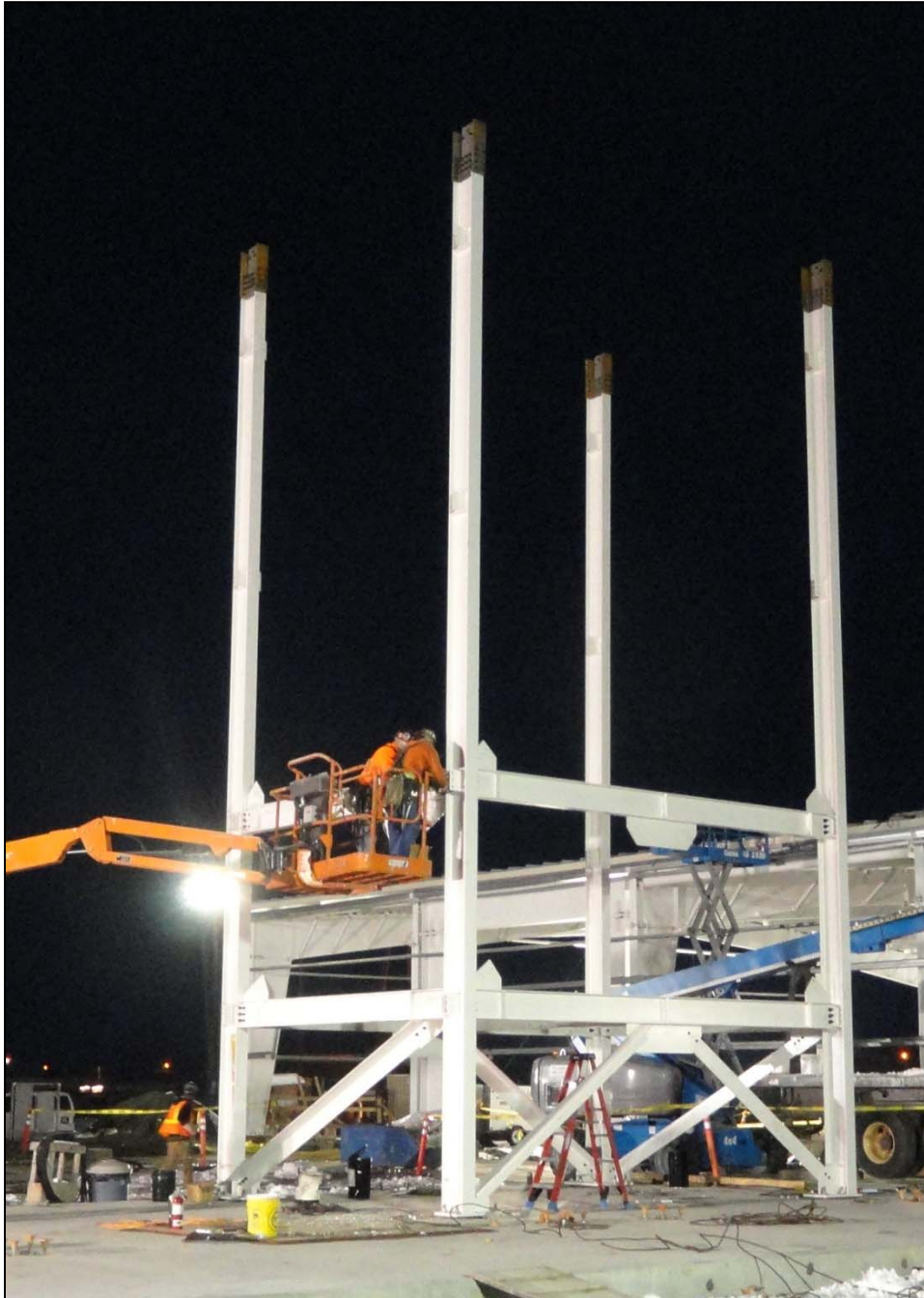
At the 200 West Area Groundwater Treatment Facility project, construction activities continued with approximately 800 cubic yards placed through the weeks ending Dec. 17 and Dec. 31, putting the project-to-date total at approximately 7,350 cubic yards placed.

The general contractor, Skanska USA Build Inc., and their subcontractors continued construction of the main process buildings:

- **Radiological Building:** Ion Exchange trains were placed in the building and installation of interior rough-in electrical, temporary heat, fire protection and power are ongoing. The two larger tanks were placed inside the building to allow closing in of the building to be completed.
- **Bio-Processing Building:** The structural steel is complete. Slab-on-grade pours were initiated and installation of the fire protection well and dry systems is complete.
- **Bio Pad:** The air stripper tower and pipe supports are being installed. The final 300 cubic yards of the slab on grade pours were completed Dec. 16.

Construction subcontractor George A. Grant continues construction activities on the four transfer buildings. Touch-up painting was performed and punchlist items are being completed for the two extraction buildings. Tanks are being placed in the first injection building and structural steel is being erected for the second.

Long lead equipment that arrived during the past three weeks included centrifuges and the resin unloading system.



Construction of the air stripper tower for the Bio-Process Building began in early December. The primary function of the air stripper is to help remove carbon tetrachloride and other contaminants from the groundwater.

Photo 8



Structural steel is on the rise for the air stripper tower for the Bio-Process Building that will be part of the 200 West Groundwater Treatment Facility. The air stripper helps remove or reduce contaminants that may be present in groundwater extracted from the soil and transferred to the 200 West Groundwater Treatment Facility. The contaminants are removed from the groundwater and transferred to the air which is then transferred to a filter that removes the contaminant.

Photo 9

DX Groundwater Treatment Facility

Completed activities include installation of replacement Analog Input modules for the Motorized Position Valves at the Process Building, installation of spray shields at acid and caustic tank valves and flanges, and insulation of caustic tank and lines. The ethylene propylene diamine gasket was replaced and tested on the acid tank. Acceptance testing is complete. The facility was signed over to Operations on Dec. 17. The Tri-Party Agreement milestone M-016-111B for 100-HR-3 operable unit pump and treat system capacity was submitted to DOE as achieved on Dec. 27.

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

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

U Canyon

Significant progress has been made in core drilling for grout conveyance access to the canyon, with 8 of 33 cores completed. Task release went out for obtaining the grout pumps and beginning site preparation for the batch plant. Site preparation for receipt of sedimentation rubble from the KW sedimentation basins is complete. The 61,000-pound shipping cask for moving the D-10 tank to the CWC was delivered to U Plant, and shipping preparations are 75 percent complete. Beryllium testing resumed in the railroad tunnel and the north electrical and piping galleries.

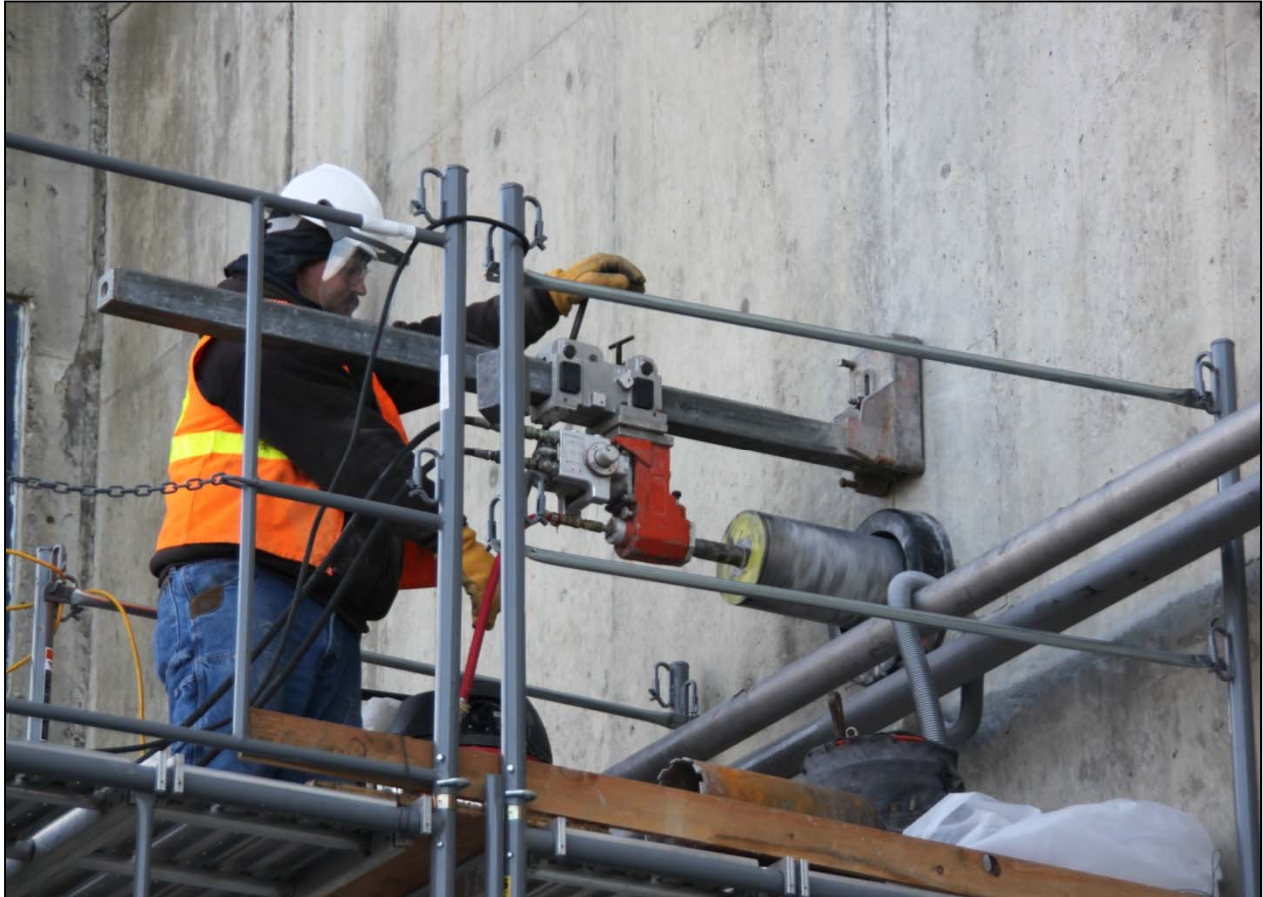


Photo 10

A worker with CHPRC subcontractor A-Core drills a hole in U Canyon's northwest side in preparation for grouting of the canyon's interior.

U Plant Ancillary Facilities

Final surveys, gravel placement and grading, and equipment decontamination continued at the site of the former 224-U and 224-UA ancillary facilities. Closure documentation is being prepared.

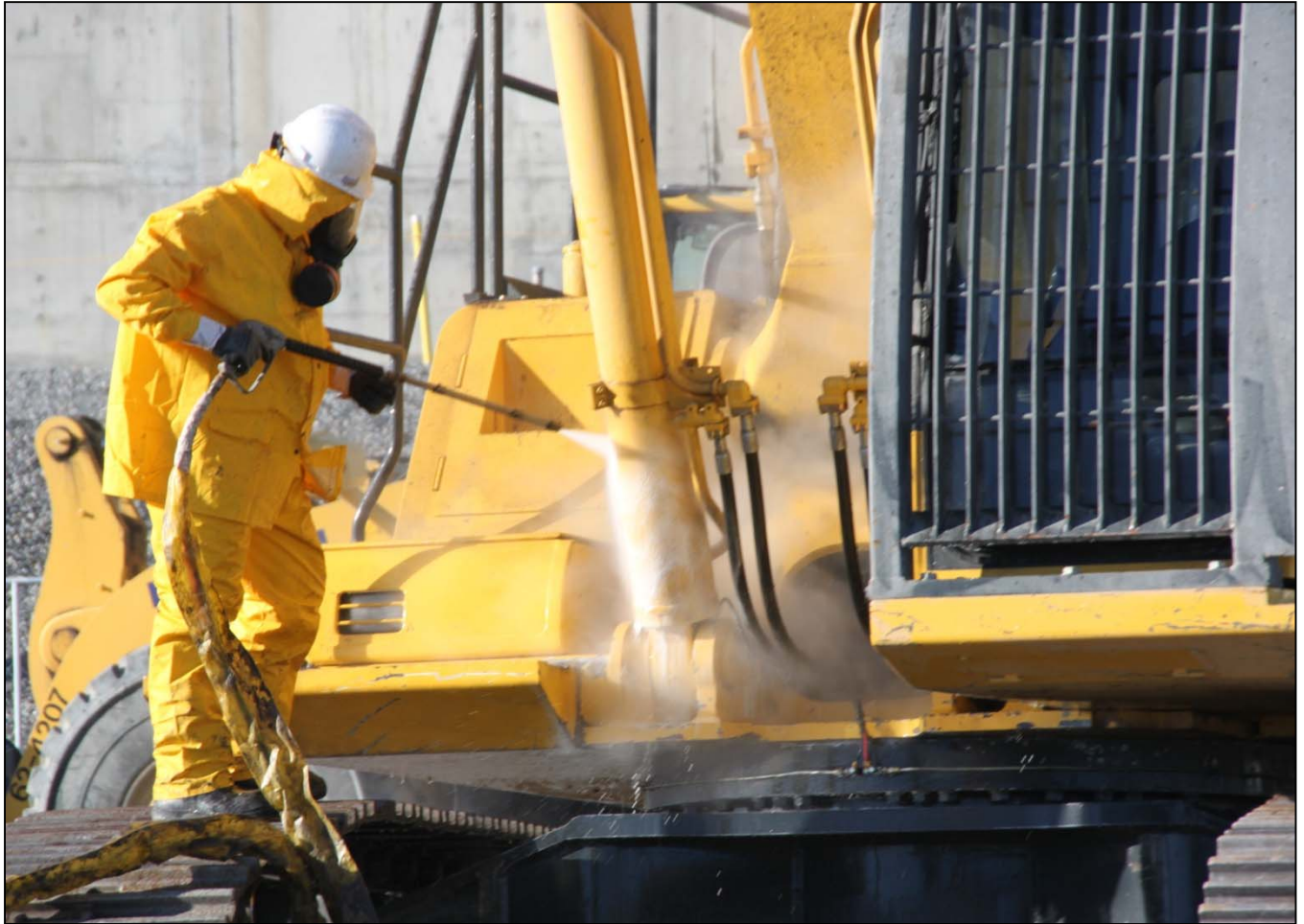


Photo 11

A CHPRC worker decontaminates demolition equipment at the former site of the U Canyon ancillary buildings.



Photo 12

CHPRC workers complete site preparations for receipt of 100KW rubble for future backfill of the U Canyon demolition site.

200 East Core Industrial Area

Asbestos abatement of the first floor of the 284-E Powerhouse is 90 percent complete. With the second, third, and fourth floors complete and undergoing final cleanup, abatement in the building is expected to be complete in January.

200 West Area Industrial Facilities

CHPRC has completed demolition of the 284-WB Package Boiler Plant and its diesel tank. The area will be used as a staging area for the explosive demolition of the building's two exhaust chimneys in February. Asbestos abatement of the 284-W Power House and Steam Plant exterior piping continued while a "clean room" was prepared to facilitate abatement of the interior.



Photo 13

CHPRC workers perform asbestos abatement on the 284-W Power House and Steam Plant building's exterior steam lines.



Photo 14

Debris cleanup progresses at the site of the demolished 284-WB Package Boiler Plant and its diesel tank.

209-E Criticality Mass Laboratory

Electrical isolation of the 209-E building is nearly complete as asbestos abatement continued in the Critical Assembly and Mix rooms. Work continued for the removal of the HO-200 glovebox and equipment. Visual inspection of the tanks continued in preparation for removal and disposal.

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

North Slope Debris Removal

Personnel with CHPRC subcontractor Sealaska Environmental Services completed cleanup of Area 15 of the North Slope and the area is ready for a final walk-down. Work continued in Areas 13 and 14, with 34 sites cleaned up in the past week. Cleanup began in Area 10. In Areas 11 and 12, cultural and ecological reviews are complete and the areas were released for work to begin.

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

Documents continued through the review and approval processes. Visual inspection of the railcars continued, with inspection of the small tank car complete. Discussions with representatives of the B Reactor museum regarding preservation of the locomotives and/or cask cars are ongoing.

Waste Sites

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

| Waste Site in Progress | Tons of Contaminated Soil Removed | |
|------------------------|-----------------------------------|----------------------|
| | <i>Week Ending Dec. 31, 2010</i> | <i>Total to Date</i> |
| 600-222 | 1,839 | 14,895 |
| 600-286/287-PL | 1,250 | 4,272 |
| BC Control Area | 4,100 | 291,000 |

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

- *200-MG-1*
 - 600-40: Verification sampling was performed; results are being reviewed
 - 600-220: Sampling was completed; retrieve, treat, and disposal (RTD) will be required.
 - 600-222: Excavation was completed removing 57 tons of debris and verification samples have been taken. The Remedial Action Report is being reviewed by DOE-Richland Operations Office and the Regulators.
 - 216-S-19: Lab results of surface sampling have been received and analyzed, revealing some elevated levels of contamination above the Remedial Action Limits. No action will be taken until direct push test samples are taken and analyzed.
 - 600-38: Stockpiled clean fill for backfill.
 - 299-W-147-PL: Excavation is ongoing.
- *200-CW-3*
 - 216-N-4: The remaining site verification package (RSVP) is being prepared. Backfill is being hauled for 216-N-4 and N-6 with approximately 20,000 tons stockpiled.
 - 216-N-6: The RSVP is being prepared. Radiological Operations completed site down-posting.
 - 600-286-PL: Remediation is complete. Analytical results indicated the RTD is complete.
 - 600-287-PL: Work commenced on Dec. 3. A total of 8,359 tons of debris has been removed. Excavation was completed Dec. 16 and samples were collected Dec. 19. Data should be available shortly. The road cut was backfilled and the road is open.
- *BC Control Area*
 - For Zone A, approximately 111 acres have been excavated and surveyed.
 - For Zone B, radiological down-posting surveys are in process.

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

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

Facility D&D

With the building’s discharge chute complete, demolition and waste load-out continued on both the east (office area) and west (horizontal control rod rack) sides of the 105-KE reactor building.



Photo 15

Ongoing demolition on the east and west sides of the 105-KE reactor building.

Infrastructure Utilities Upgrade Project

Piping modifications and programming of the microfiltration system were completed following a preliminary customer acceptance testing (CAT). Several punch list items were completed in the A-9 substation, including labeling of panels and conduits. Drilling of the first of two wells to improve substation grounding is 75 percent complete.

Waste Sites

CHPRC continued excavating soil from the 100-K-42 waste site, located near the former K East Reactor fuel storage basin; 2,872 tons of soil have been removed from the waste site in December, with a cumulative total of almost 15,880 tons. CHPRC is also removing soil from waste sites near the former 115-KE and 117-KE buildings, with a total of 2,140 and 1,766 tons of soil removed to date, respectively, and CHPRC initiated demolition of the sub-grade portion of the structures.



Photo 16

CHPRC is removing subgrade structures and soils from the 115-KE building in the 100K Area of the Hanford Site. The above-grade portion of the building was demolished, also with Recovery Act funds, in 2010.

UPCOMING EVENTS

RL-0011 Nuclear Materials Stabilization & Disposition

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

- Complete grouting of the first phase of drain line trenches in the 234-5Z building.
- Complete decontamination and remove last two gloveboxes from 2736-ZB vault support building.
- Complete RadPro® chemical decontamination of glovebox HA-46 in the RMA Line.
- Complete decontamination of HA-19B1 and B2 with Aspigel® and determine its effectiveness as an alternate decontamination process.
- Modify the last remaining catwalk support and remove gloveboxes HA-22 and HA-21I.
- Complete isolation of glovebox HA-20MB for future in-situ size reduction.
- Complete removal of equipment from conveyor gloveboxes HC-3 and HC-4.
- D&D the remaining three gloveboxes in Room 143 of the Analytical Laboratory.
- D&D nine gloveboxes in Room 179 of the Plutonium Process Support Laboratory.
- Begin isolation and cleanout of gloveboxes in the 242-Z building.

RL-0013 Solid Waste Stabilization & Disposition

RL-0013C:R1.1: MLLW Treatment

- No planned shipments this week.

RL-0013C:R1.2: TRU Waste

- TRU Retrieval
 - 3A burial ground:
 - Complete excavation and retrieval of Trench 17 metal Box 19.
 - Complete excavation, reinforcement, retrieval and shoring box for Trench 17 fiberglass-reinforced plywood Box 13.
 - Complete construction of Trench 17 Box 27 temporary cover and initial fogging of Box 27.
 - Ship Trench 8 Boxes 23, 25, 31, and 33.
 - 4B/4C burial ground:
 - Perform second sub-surface survey of 4B Trench 11 following removal of the first three feet of overburden.
 - Excavate 15 feet to the bottom of 4B Trench 11 and begin retrieving containers.
 - Begin assay campaign for 4B Trench 11 containers.
 - Approve Operating Procedure SW-100-154 for the mDVS at 4C.
 - Begin mVDS PM work packages.
 - 12B burial ground:
 - Complete the Contractor Readiness Assessment for the TFRCS.
- TRU Repack
 - Seven planned TRUPACT-II shipments.
- Suspect TRU Waste Shipments
 - No planned shipments this week.

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

RL-0030.R1: Central Plateau Soil & Groundwater

- Continue construction of the 200 West Groundwater Treatment Facility
- Complete turnover of the DX Groundwater Treatment Facility to operations.
- Continue well installations and decommissioning.

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

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

- Complete equipment decontamination final surveys and postings at U Ancillary work site.
- Remove and dispose of Tank 108 from the Critical Assembly Room of the 209-E Criticality Mass Laboratory; complete electrical isolations.
- Complete asbestos abatement of first floor of the 284-E Powerhouse.

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

- Continue debris site cleanup on the North Slope; begin cleanup in Areas 11 and 12.
- Continue remediation of the BC Control Area and backfill preparations for 216-N-4 and -6.
- Continue preparations and planning for disposition of contaminated railcars in the 200 North Area.

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

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

- Continue demolition on the 105-KE Reactor building.
- Perform final Customer Acceptance Testing of the water treatment facility.
- Continue remediating contaminated soil from waste sites.