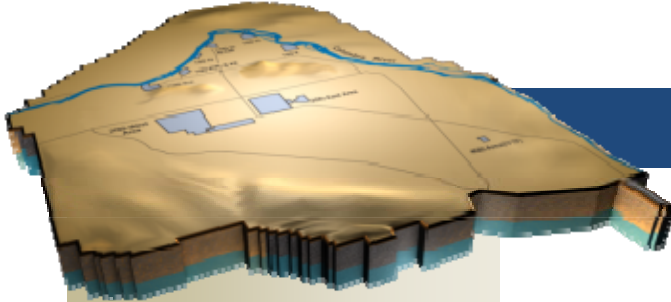


ARRA Weekly Report



Week Ending April 9, 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 170 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 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 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 provide access to waste sites located underneath.

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 49 wastes 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, 47 glove boxes and laboratory hoods have been removed from their originally installed locations at PFP with Recovery Act funds. Forty of these have been shipped for treatment or disposal, two are awaiting shipment, and five are staged for size reduction and disposal as TRU waste. CHPRC has shipped 791 cubic meters of LLW and 116 cubic meters of TRU waste from PFP with Recovery Act funding. Since April 2009, CHPRC has also prepared 17 small fuel vaults and ancillary structures for removal or demolition; two of these were removed for reuse at other locations.

Laboratory areas

Glove box 221C-3 was isolated from building ventilation and is ready for removal from the Standards Laboratory. Final preparations were completed for removal of three hoods from room 191 of the Plutonium Process Support Laboratory, including application of fixative inside the hoods and isolation from building ventilation. Three glove boxes in the Analytical Laboratory remain ready for removal from room 136 as soon as a doorway can be widened to allow for removal of the interconnected glove boxes. Equipment removal is continuing on eight glove boxes and hoods in rooms 139 and 148.

Plutonium processing areas

Preparations were initiated for removal of glove box HC-60 and fixative was applied to the interior surfaces. Process equipment removal continued on glove boxes HA-28, HA-46, and 400. Implementation of the recovery plan and corrective actions continued in response to a nitric acid exposure in room 227 in late March.



Photo 1

A view of the exterior of glove box HA-28 as team members observe a nuclear chemical operator disassembling conveyor parts within the glove box. Equipment must be size reduced to allow it to be removed through the small ports in the glove box for disposal.



Photo 2

A view of the interior of the HA-28 glove box as a worker size reduces internal equipment.

2736-Z/ZB Vault Complex

Decontamination continued on the glove box in room 636 in an effort to eliminate the need for size reduction and disposal of the glove box as TRU waste. Process equipment removal continued in the glove boxes in room 642. A variety of equipment was disassembled and 18 waste packages were prepared for removal from the glove boxes. Work was also initiated to dispose of unused equipment in room 637, the former Non-Destructive Assay Laboratory.

242-Z Americium Recovery Facility

With the removal of combustibles from the control room completed, the D&D crew performed radiological characterization surveys in the room and began taking photographs of the fire protection sprinkler system. An initial entry was made to the tank room area of the building to review the conditions, obtain dose rate measurements, complete contamination surveys, and verify the quantity of combustibles to be removed. The entry was suspended when contamination levels were encountered in excess of the Radiological Work Permit. Although the door into the tank room was briefly opened five years ago, this was the first entry into that area of the building since 1995.



Photo 3

Workers prepare to remove combustibles from the control room of the 242-Z Building, one of several buildings at the Plutonium Finishing Plant where CH2M HILL is using Recovery Act funding to remove hazardous materials and contaminated equipment to prepare the overall Plutonium Finishing Plant complex for demolition.

Infrastructure, process support systems, and equipment removal

Training and other preparations continued toward beginning the removal of nearly a mile of heavily contaminated process vacuum system piping from the 234-5Z and 291-Z facilities. Fabrication was completed on a portable glove box for size reducing long pieces of pipe that will be cut and lowered from elevated locations. Assembly and preparation of a mock-up was also completed for simulating the physical layout and contamination controls to be applied to the piping removal work.

More than 160 feet of asbestos insulation was removed in the 234-5Z building last week, bringing the total removed with Recovery Act funds to more than 8,600 feet.

Field construction forces continued mobilizing for the installation of a supplemental cooling system to improve safety and working conditions during D&D of the process facilities in the summer months. Three 300-ton chiller units were received from the vendor and are staged for installation along with previously received electrical equipment.



Photo 4

Working through a protective glove bag, workers remove asbestos in the 234-5Z Building at the Plutonium Finishing Plant. To date, insulators have removed 8,600 feet of asbestos insulation from the Plutonium Finishing Plant with Recovery Act funding.

RL-0013 Solid Waste Stabilization & Disposition

RL-0013C:R1.1: MLLW Treatment

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

- 909 m³ of MLLW and LLW have been shipped to date including:
 - 445 m³ that have been treated and disposed.
 - 464 m³ at off-site treatment facilities awaiting processing. Treatment is scheduled for FY10.

One shipment of waste was sent out for treatment last week: 17 drums (5.5 m³) of MLLW debris, previously classified as TRU waste, were shipped from the Waste Receiving and Processing Facility to Perma-Fix Northwest (PFNW). The waste will be non-thermally treated through macro-encapsulation and packaged for disposal at Hanford's Mixed Waste Disposal Units.



Photo 5

Drums containing mixed low-level waste debris are being loaded onto a truck for shipment from the Waste Receiving and Processing Facility. The shipment contains 17 drums (5.5 m³) that will be sent to Perma-Fix Northwest to be thermally treated through macro-encapsulation for disposal in Hanford's Mixed Waste Disposal Units.

Environmental Restoration Disposal Facility (ERDF) "Self Perform" Project

A draft report of the Management Assessment that was conducted to assess plans for operations at the facility was completed and is in review. The Operations group is already at work correcting findings and observations noted in the report. Another roll-on/roll-off truck was received and is undergoing its Department of Transportation inspection. To date, 11 of the 14 trucks are onsite.

RL-0013C:R1.2: TRU Waste

TRU Retrieval

Corrective Action Plan activities continued to support resumption of waste retrieval activities. The Retrieval Plan (RP-1) for 3A Trench 17 was completed. Preparation of the work package to remove Box 3 in 3A Trench 17 was completed for the HRB meeting. Final revisions and approvals were completed for procedures SW-ERP-011, SW-100135, SW-100-157, SW-100-158, SW-100-096, and SW-100-173. These procedures are used for waste retrieval operations such as excavation, removal, and secondary waste management. Revisions were also completed for work packages supporting disassembly of Boxes 80 and 82, which are located in 3A Trench 17.

Training for the procedure SW-ERP-011, Response to Off-Normal Condition at Waste Retrieval Project, and its relationship to other new or revised procedures was completed. Four emergency preparedness drills using the new procedure SW-ERP-011 were completed.

Work continued on the recovery plan to move boundaries inward for 4B Trench 11. Self-contained breathing apparatus training and mask fitting for retrieval project staff including field work supervisors, nuclear chemical operators, radiological control technicians, industrial hygienists, and radiation control first-line managers was completed.

Alpha Caisson Retrieval Project

The Project Management Group sent summarized recommendations of the optimization studies for Waste and Fuels Management Project management review and approval. Design teams are focusing on completing common designs that will be used for both retrieval and processing systems such as drum handling equipment, decontamination stations, and shielded transport containers. The functional design criteria were approved. The ARES Corporation continued the final design development focusing on the remote retrieval system and the shielded transfer containers and accessories. HVAC calculations were completed and submitted to CHPRC for review. AREVA continued preliminary design efforts on the transfer module and the processing cell and maintenance modules.

TRU Project Drum Repackaging

Of the 850 m³ planned to be characterized and repackaged under the Recovery Act:

- 1,083 drums (225.3 m³) have been repackaged.
- 14 TRUPACT-II shipments (588 drums, 122.3 m³) have been shipped.



Photo 6

A TRUPACT-II shipment leaves the Waste Receiving and Processing Facility for the Waste Isolation Pilot Plant. A total of four shipments left the facility last week. Shipments will now ramp up to five per week and continue at this rate through the fiscal year. These shipments were able to resume thanks to Recovery Act funding to help remove hazardous waste from the Hanford Site.

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 complete in the near future. The initial stages of construction continued with 27 high-density polyethylene (HDPE) piping road crossings completed, approximately 21 percent of the HDPE piping installed, 15 electrical power racks fabricated, and mobilization of the construction contractor initiated to complete installation of the transfer building shells.



Photo 7

Workers bond a section of high-density polyethylene piping that will connect wells to the 200 West Groundwater Treatment Facility. To date, 21 percent of the piping has been placed and installation is in progress for 11 of 17 planned wells.

DX Groundwater Treatment Facility

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	50%	50%
Transfer (M1)	60%	50%
Transfer (M2)	40%	50%



Photo 8

Treatment tanks leave the vendor headed for installation at the DX Groundwater Treatment Facility. The tanks are part of the treatment facility's innovative resin filter system that is expected to save \$20 million in lifecycle savings.

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. CHPRC is using Recovery Act funding to install wells to monitor, extract, and remediate contaminated groundwater while also decommissioning or closing wells that are no longer of service to support reduction of the Hanford Site cleanup footprint.

Operable Unit	Scope (Wells to be drilled with Recovery Act funding)	In progress	Drilled to Total Depth ¹	Completed or Developed ²
100-NR-2	Expand the apatite barrier to better contain a strontium-90 plume along the Columbia River (171 wells)	149	149	71
100-HR-3	Support the optimization of removal of chromium (16 wells)	11	9	7
M-24	Support characterization of the aquifer (5 wells)	2	-	-
200-ZP-1	Support the 200 West Groundwater Treatment Facility that will primarily treat carbon tetrachloride contamination in the groundwater (17 wells)	11	7	6
Site-wide	Decommission wells that are no longer of service ³ (350 wells)			44

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 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*

Repairs and the monthly wire rope inspection were completed on the canyon crane. Equipment placement resumed and is projected to be completed on schedule. When this initial phase of equipment placement is complete and grouted in place, additional equipment placement and grouting will continue until the cells are filled. Emergency exit signage and activation of exits continued in order to bring the facility in compliance with Life Safety Code requirements. The grout system design and sequence for grouting equipment into the process cells are being formulated. Discussions continued regarding various aspects of shipping the D-10 tank in cell 30 to T Plant. Efforts continue to dispose of known chemicals in the canyon. Acetylene bottles were removed from the canyon.



Photo 9

Workers add absorbent to waste oil found in the U Canyon to ensure no free liquids exist in the container prior to disposal. Disposal of the chemicals is part of the overall effort to prepare the canyon for demolition in 2012.

U Plant Ancillary Facilities

Asbestos abatement continued in the 224-U and 224-UA buildings. Trailers and equipment that supported demolition preparations are being demobilized. Asbestos abatement, cleanup, and down-posting is complete for the upper tower of the 224-U building. Abatement in the lower portion is in progress and will be complete next week. Demolition planning, equipment movements, and preparations are ongoing.

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 was initiated at the powerhouse on exterior piping and will continue next week. Final beryllium samples for the powerhouse were received and the building was down-posted. Demolition preparation for the 272-E Fabrication Shop is in progress and will continue into next week. A meeting was conducted with personnel in the vicinity of the 272-E and 275-E buildings to review the demolition strategies, processes, and controls to ensure the work will be performed safely.



Photo 10

Temporary lighting is being installed in the 284-E Powerhouse in preparation for hazardous material removal prior to demolition of the facility.

209-E Criticality Mass Laboratory

Internal review is in progress for several key documents (i.e., Facility Hazards Analysis, Documented Safety Analysis, Notice of Construction, and Criticality Safety Evaluation Report) that will support decontamination and demolition activities at the 209-E Criticality Mass Laboratory. Initial radiological surveys of the CAR and MIX rooms are complete and the information is being used for developing work documents to support housekeeping and other immediate activities. Cold and dark isolation activities have begun. An inspection of the facility was performed to evaluate exposed electrical wires. It was determined that the wires were not energized and were likely instrument wires. A statement of work is being developed to obtain nondestructive assay support for the work to be performed at the facility. Waste profiles are being prepared to obtain approval to dispose of waste at ERDF.

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

Arid Lands Ecology Reserve (ALE) D&D

Removal of the foundations from lower ALE facilities is continuing and the debris is being loaded into containers for disposal. Cold and dark isolation activities of structures on upper ALE were completed and cleanup of debris sites throughout the reserve are ongoing.

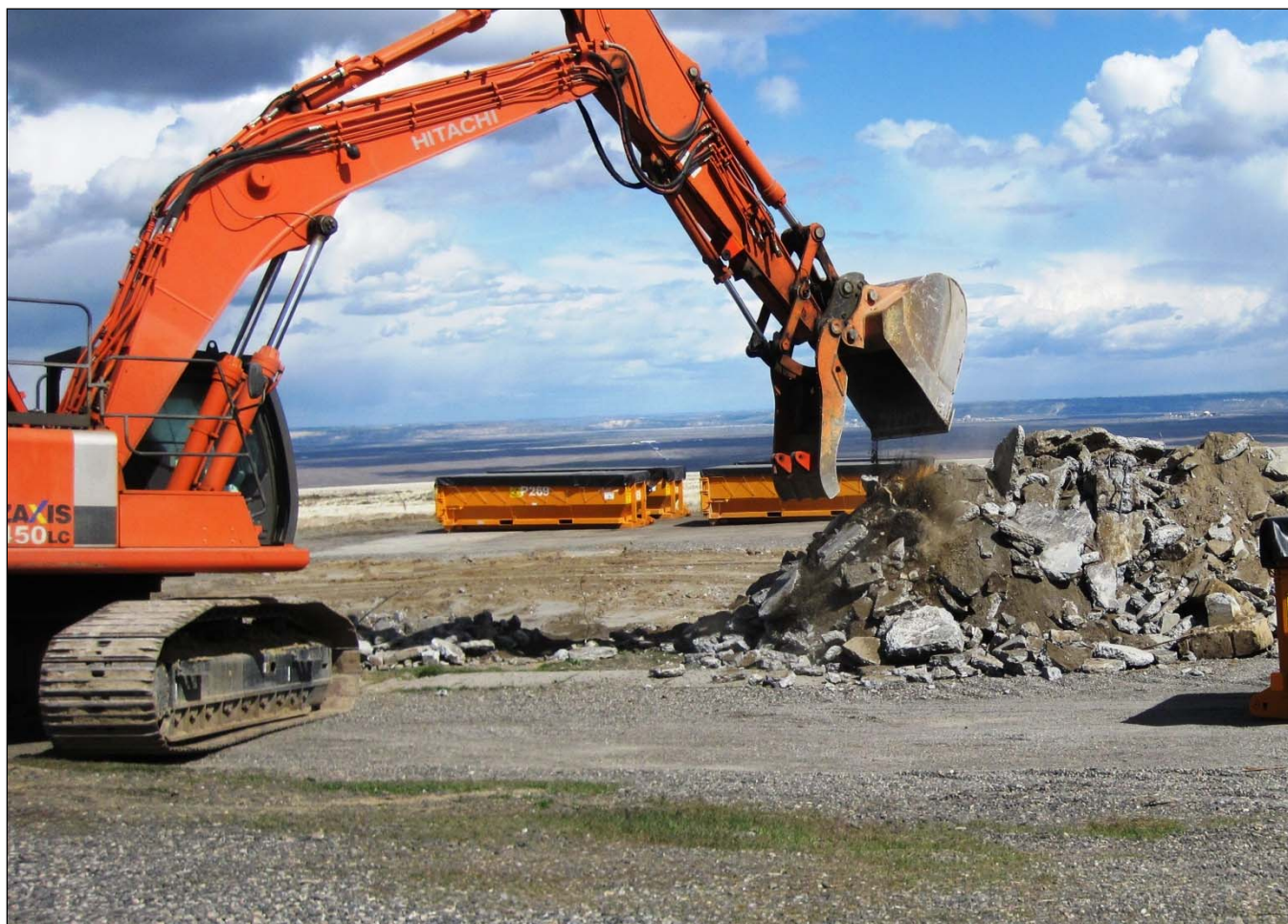


Photo 11

Concrete rubble from the foundations of demolished structures on the lower Arid Lands Ecology Reserve is being loaded into containers for disposal. The buildings were demolished in early 2010 with Recovery Act funding. CH2M HILL is preparing to demolish facilities on the upper reserve later this year.

212-NPR Interim Fuel Storage Building D&D

Equipment is being removed from the sites of the former 212-N, -P, and -R interim fuel storage buildings in the 200 North Area and final paperwork is being prepared.

Waste Sites

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

- *200-MG-1*
 - 600-36: After approximately 200 additional tons of soil were removed from the waste site and delivered to ERDF, verification samples were taken to determine if the remedial action goals were achieved.
 - 600-37: Sampling activities continued.
 - 600-38: Confirmatory sampling was completed and a data report is being generated.
 - 600-40: Excavation continued with approximately 640 tons of contaminated soil delivered to ERDF.
 - 600-218: Confirmatory sampling was completed and a data report indicated the waste site requires the retrieve, treat, and dispose process.
 - 600-262: Confirmatory sampling was completed and the data report indicated the waste

- site can be down-posted from an Underground Radioactive Material Area.
- 200-W-33: Confirmatory sampling was completed and a data report is being generated.
 - 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 16,000 tons of contaminated soil to ERDF.
 - BC Control Area
 - Remediation continued with seven super dump trucks having delivered approximately 82,000 tons of contaminated soil to ERDF. For Zone A and Zone B, approximately 21 and 680 acres have been remediated, respectively.



Photo 12

An excavator loads soil removed from a waste site in the 200-MG-1 operable unit near West Lake on the Hanford Site. The 200-MG-1 site comprises a series of small waste sites that were once contaminated from dumping or burning of various debris and chemicals.

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. Debris from demolition of the 183.6KW Lime Feeder Building was placed into containers for disposal at ERDF.

Debris removal continued in the 105KW Fuel Storage Basin. A total of 610 debris units have been removed to date. Grating in the basin is being modified to accommodate future debris removal.

Scaffolding was erected in the 105KW Basin facility and duct installation began for upgrading the 105KW heating, ventilation, and cooling (HVAC) system. Materials, equipment, and tools to support the HVAC upgrade are being received.

Preparations continued for asbestos abatement on the dryer tanks in the 115KE Gas Recirculation Building. Planning continued for the explosive demolition of the 116KE Reactor Exhaust Stack, scheduled for later this spring. Glycol removal at the cross-tie tunnel continued. Asbestos abatement continued in the 1706KE and 1706KER substructures in preparation for demolition.

Preliminary design activities and document preparation for activities regarding disposition of the 105KE Reactor continued. Preparations for obtaining characterization samples also continued. Hazardous materials in the 105KE Reactor building are being identified and removed.

Infrastructure Utilities Upgrade Project

Isolation of the 100K Area utilities continued. Equipment and materials for construction activities are being procured and staged for the start of construction. Backfill material is also being staged for future use. Work execution documents are being prepared and designs are being finalized. Field construction activities are expected to begin next week. The 30-day public review period for the cultural and ecological review report for installation of the import water line continued. Fabrication of the fire pump and microfiltration unit for the Water Treatment Facility is ongoing. Design and fabrication of the skid-mounted electrical substation continued.



Photo 13

Pipe for the interim water distribution system is being staged for construction. The water line will provide interim infrastructure to reduce restrictions on planned demolition and remediation activities in the 100K Area.



Photo 14

Backfill material is staged for use as part of the Infrastructure Utilities Upgrade Project that will use Recovery Act funding to reroute and upgrade utilities to improve working conditions for decommissioning and demolition activities in the 100K Area.

Waste Sites

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

- 100-K-3 (Fish Pond Pipeline) – Remediation continued with demolition and shearing of the pipeline.
- 100-K-47 (Process Sewer) – Approximately 900 tons of contaminated soil have been removed from the waste site and delivered to ERDF.
- 100-K-56 (100KE Reactor Cooling Water Effluent Pipeline) – Remediation continued with demolition and shearing of the pipeline.
- 100-K-71 (Collection box) – Approximately 950 tons of contaminated soil have been removed from the waste site and delivered to ERDF.
- 120-KW-1 (183KW Filter Water Facility Dry Well) – Remediation continued with the demolition of concrete pads and staging of excavated soils. The staging piles were sampled to determine the treatment path for the chromium-contaminated soils.



Photo 15

Concrete pads are being demolished and excavated soil is being staged at the 120-KW-1 waste site in the 100K Area. The piles were sampled to determine the treatment path for chromium contamination in the soil.

UPCOMING EVENTS

RL-0011 Nuclear Materials Stabilization & Disposition

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

- Enlarge the doorway and remove three glove boxes/hoods from room 136.
- Remove three hoods from room 191.
- Isolate two hoods in room 221C and transfer all eight glove boxes and hoods from the Standards Laboratory to waste operations.
- Prepare glove box HC-60 for removal and continue process equipment removal from glove boxes HA-28, HA-46, and 400.
- Assess the radiological status of and determine a disposition path for glove box HC-230C-3.
- Initiate removal of the process vacuum system piping from the 234-5Z and 291-Z buildings.
- Complete chemical decontamination of the 636 glove box in the 2736-ZB building and install a new glove box panel and load-out port on glove box 642.
- Complete removal of combustibles from the 242-Z tank room and begin applying contamination fixative in the control room.

RL-0013 Solid Waste Stabilization & Disposition

RL-0013C:R1.1: MLLW Treatment

- Planned shipment of 10 drums (2.5 m³) of remote-handled MLLW sent from the Central Waste Complex (CWC) to PFNW.
- Planned shipment of four drums (0.8 m³) of MLLW debris sent from CWC to PFNW.
- Planned shipment of seven drums (1.5 m³) of MLLW debris sent from CWC to PFNW.
- ERDF “Self Perform” Project - Container Maintenance Facility:
 - Receive more roll-on/roll-off trucks.
 - Issue Management Assessment Report.

RL-0013C:R1.2: TRU Waste

- TRU Retrieval
 - Continue Retrieval Corrective Action Plan activities:
 - Complete HRB meeting for Work Package 2X-08-3538, incorporate comments as needed, and approve.
 - Complete EP drills and incorporate revisions to SW-ERP-011 as necessary.
 - Issue Trench 17 Retrieval Plan RP-1.
 - Resume retrieval operations in 218-W-3A Trench 17.
 - Continue preparation of 4B Trench 11 Recovery Plan for moving the boundaries inward.
 - Continue Mobile Radioactive Decontamination Unit set-up/start-up.
 - Disassemble 4C Process Area tent
- Alpha Caisson Retrieval
 - Issue Conceptual Safety Design Report on May 13 to DOE for review.
 - Award contract for remote retrieval system mock-up on May 13.
- 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 200-ZP-1, 200-BP-5, 100-BC-5, and 100-NR-2.
- 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.
- Continue asbestos abatement and demolition preparations for the U Plant ancillary facilities.
- Continue relocating equipment from the U Canyon deck into the process cells.
- Continue preparations for demolition of the 272-E and 284-E buildings.
- Continue planning and preparations for demolition of the 209-E Criticality Mass Laboratory.

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

- Continue waste load-out for the lower ALE facilities.
- Continue removal of debris sites throughout the ALE Reserve.

- Continue demolition preparations for the upper ALE facilities.
- 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.