

# **ARRA** Weekly Report



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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 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 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

Last week, three glove boxes were removed from within the 234-5Z and 2736-ZB buildings. Eight standard waste boxes (SWBs) were also shipped, along with two roll-on/roll-off boxes of LLW that were shipped out of PFP for onsite disposal.

Structures, equipment, waste disposition	Total to Date (since April 2009)	
Glove boxes/hoods removed	75 glove boxes/hoods	
MLLW/LLW shipped	2,051 m <sup>3</sup>	
TRU shipped	187 m³	
Non-radioactive waste shipped	22 m <sup>3</sup>	
Process transfer piping removed	123 feet	
Process vacuum system piping removed	122 feet	
Asbestos removed	10,879 feet	
Ancillary structures demolished or removed	22 fuel vaults & ancillary buildings prepared for demolition:	



Three solid waste boxes are loaded with glove boxes/hoods removed from the Plutonium Finishing Plant and prepared for shipment and disposal. Last week CHPRC removed three glove boxes from the Plutonium Finishing Plant, bringing the total to 75 glove boxes/hoods removed with Recovery Act funding since April 2009.



#### Laboratory & Processing Areas

Glovebox 180-85 was separated from building ventilation, removed from room 180 of the Plutonium Process Support Laboratory, and transferred to waste operations for packaging and onsite disposal at the Environmental Restoration Disposal Facility (ERDF) as LLW. Three inter-connected hoods previously removed from room 137 of the Analytical Laboratory were size reduced, loaded into SWBs, and transferred to waste operations for disposal as TRU waste. With two other hoods from room 149 size reduced last week, only one glove box, HC-60, is currently awaiting size reduction at the PFP Complex. Chemical decontamination with RadPro® continued on six hoods in room 139, and preparations for removal of the first three from building ventilation are under way.

In the RMC Line production area, crews began applying contamination fixative to the interiors of glove boxes HC-230C-3, -4, and -5, and initiated preparations to remove them from building ventilation. External isolations continued on glove box HA-46 in the RMA Line and glove box 200 in the Radioactive Acid Digestion Test Unit area.



A glove box from room 137 is received into a waste staging area at the Plutonium Finishing Plant, where it was loaded into a standard waste box and prepared for shipment and disposal as transuranic waste.





Photo 3

Glove box 180-5 is loaded into a container for shipment and disposal. This is one of three glove boxes removed from the Plutonium Finishing Plant last week, bringing the total removed with Recovery Act funding to 75 removed since April 2009.

#### 2736-Z/ZB Vault Complex

An internal vault doorway was enlarged and the final glove box was removed from room 636 in the 2736-ZB building. The first glove box, 642-F, was removed from room 642. Glove box 636 will be non-destructively assayed to determine if it can be disposed of as LLW, while 642-F was loaded directly into a SWB for shipment to the Waste Receiving and Processing facility (WRAP) for disposal as TRU waste.

#### 242-Z Americium Recovery Facility

Entries into 242-Z were reinitiated this past week. The D&D crew focused primarily on removing contamination and applying additional contamination fixative in the 242-ZA annex, which successfully reduced airborne contamination levels to the point that respiratory protection requirements in the annex could be reduced from supplied air to Powered Air Purifying Respirators.

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

Removal of asbestos as well as highly contaminated process vacuum system piping and process transfer lines in the 234-5Z building continued this week. Meanwhile insulators removed asbestos from 113 feet of piping in 234-5Z building, bringing the total removed with Recovery Act funds to 10,879 feet. Installation of a 3-wide trailer complex to house the PFP Tool Crib is nearing completion.



# RL-0013 Solid Waste Stabilization & Disposition

RL-0013C:R1.1: MLLW Treatment

Of the 1,800 m<sup>3</sup> of MLLW and low-level waste (LLW) planned for shipment under the Recovery Act:

- 1,010 m<sup>3</sup> of MLLW and LLW have been shipped to date including:
  - o 854 m³ that have been treated and disposed.
  - o 156 m<sup>3</sup> at off-site treatment facilities awaiting processing. Treatment is scheduled for FY11.

One shipment of 20 drums (4.2 m<sup>3</sup>) containing LLW debris went out this week on Sept. 28 from the Central Waste Complex (CWC). The waste will be shipped to Perma-Fix Northwest (PFNW) where it will be volume reduced, stabilized and packaged for disposal in Hanford's Mixed Waste Disposal Units.



A worker loads a shipment of low-level waste debris and suspect transuranic waste for offsite shipment to Perma-Fix Northwest. The low-level waste debris will be volume reduced, stabilized, and packaged for disposal in Hanford's Mixed Waste Disposal Units.

#### 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:

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



In the 3A burial ground, excavation was completed and Boxes 31 (49.4 m³) and 33 (49.4 m³) were retrieved and Culvert 39 (8.5 m3) was excavated and retrieved from Trench 8. The north side of Trench 17 where Boxes 16-27 are located was excavated. In the 4B burial ground, three previously retrieved waste containers (12.2 m³) from Trench 11 were over-packed and shipped to CWC. In the 12B burial ground, procedure SW-100-181 was approved and the drum venting system 2 (SW-100-183) and process procedure (SW-100-185) were validated.



Workers remove Box 31 (49.4 m<sup>3</sup>) from Trench 8 in the 3A burial ground with a crane during an overtime swing shift on Sept. 27.



Box 33 (49.4 m<sup>3</sup>) from Trench 8 in the 3A burial ground is removed by crane during an overtime swing shift on Sept.

## TRU Project Drum Repackaging

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

- 1,844 drums (398.4 m³) have been repackaged.
- 91 TRUPACT-II shipments [1,343 55-gallon drums, 24 standard waste boxes (SWBs), two tendrum over-packs, 456 85-gallon over-packs and 329 drums over-packed into 89 SWBs (489.99 m³ total)] have been shipped.

#### Suspect TRU Waste Shipments

Of the 637 m<sup>3</sup> of suspect TRU waste planned for shipment under the Recovery Act:

- 109.2 m³ have been shipped to date (40 m³ were shipped using Base funding).
- 61.8 m<sup>3</sup> have been repackaged into WIPP-certifiable packages.





A worker secures a shipment of low-level waste debris and suspect transuranic (TRU) waste for offsite shipment to Perma-Fix Northwest. The suspect TRU will be repackaged into 55-gallon drums or standard waste boxes.

# 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 <sup>1</sup>	Completed or Developed <sup>2</sup>
100-BC-5	Support characterization and removal of chromium (6 wells)	3	2	2
100-KR-4	Support characterization of the vadose zone and aquifer (13 wells)	8	6	5
100-HR-3	H Area: Support the optimization of removal of chromium (40 wells)	40	40	29
100-FR-3	Support for Remedial Investigation/Feasibility Study characterization (3 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)	17	15	15
300-FF-5	Support characterization of the aquifer (11 wells)	5	4	1
Site-wide	Decommission wells that are no longer of service <sup>3</sup>			175

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



<sup>&</sup>lt;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.

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.



A drilling crew installs a well in the 100-BC-5 operable unit, where CHPRC plans to install a total of six wells that will support characterization and removal of chromium contamination from the groundwater.

#### 200 West Groundwater Treatment Facility

Approximately 350 cubic yards of concrete were placed last week bringing the project-to-date total to approximately 2,070 cubic yards. The general contractor, Skanska USA Build Inc., and its subcontractors completed two of four slab-on-grade concrete pours and continued structural steel construction for the Radiological Building.

For the transfer buildings, subcontractor George A. Grant continued construction activities continued with placement of approximately 60 cubic yards of concrete as well as (listed by building):

- Extraction #1: Both tank and pump equipment pads were poured.
- Extraction #2: Half the construction of the structural steel and the second slab-on-grade pour were completed.
- Injection #1: The first slab-on-grade was poured.

Subcontractor Ojeda Business Ventures LLC broke ground on construction activities for the third extraction transfer building (S/SX), completing site preparation and beginning excavation of the building footings. The building arrived onsite.



Construction of nine accelerated Phase II road crossings is in progress with four complete, two under construction, and one on hold for driller completion.

Issued for Construction packages for the Lime System foundation were released to the contractor.

Follow-up actions to the CH2M HILL corporate assessment are in progress with approximately 95 percent of follow-on actions completed.



Photo 9

Construction of the structural steel continues for the Radiological Building that will be part of the 200 West Groundwater Treatment Facility.

## DX Groundwater Treatment Facility

Acceptance testing continued. Electrical and mechanical equipment installation is approximately 45 and 75 percent complete, respectively, for the Chemical Addition building.



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

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

#### **U** Canyon

Post-fixative application surveys are nearing completion in the U Canyon with an objective of potentially down-posting the canyon and reducing the personal protective equipment requirements for future activities. Repair is complete on the 10-ton hoist rotational motor and replacement of the wire rope is in progress. Shielding is being placed around Cell 30 in anticipation of tank preparation activities on the D-10 tank in October. Asbestos removal efforts continued in the operating and pipe galleries. Temporary electrical modifications to accommodate grout placement are progressing. Approval of the documented safety analysis for removal of the D-10 tank is continuing with the DOE Richland Operations Office. The shipping cask is projected to be onsite by mid-December. Grout preparation efforts continued with the approval of several contractor submittals. Grout batch plant siting radiological surveys are in progress.



Photo 10

The U Canyon deck after equipment placement in the cells and fixative application. Earlier this year, CHPRC completed the relocation of approximately 125 items of major equipment into the canyon process cells, which will soon be filled with grout as part of the Recovery Act-funded effort to prepare the canyon for a first-of-its-kind demolition.

### **U Plant Ancillary Facilities**

Debris from the demolition of the 224-U and 224-UA buildings is being size reduced and loaded for disposal at ERDF.



#### 200 East Core Industrial Area

Debris load-out of the 272-E Fabrication Shop is completed. Demolition of the crusher house and conveyor system in the 284-E Powerhouse complex is in progress. A contract for the explosive demolition of the 284-E Powerhouse stacks is being finalized.



Demolition of the crusher house and conveyor system in the 284-E Powerhouse complex is in progress in the 200 East Area. The structures are part of the 284-E Powerhouse complex, the largest industrial facility scheduled for demolition with Recovery Act funding in the 200 East Area.

#### 200 West Area Industrial Facilities

Planning, characterization, and radiological surveys are ongoing for the six industrial structures planned for demolition.

#### 209-E Criticality Mass Laboratory

Additional fencing was removed from the facility area. Fixative application to certain locations on the Critical Asssemly Room (CAR) and the Mix room floors to control the potential spread of contamination was completed. Efforts started on the removal of a fork lift from the CAR. Work continued on obtaining needed approvals of the documented safety analysis and environmental documents to support the hazard reduction activities.



RL-0040.R1.2: Outer Zone D&D/Waste Sites Arid Lands Ecology Reserve (ALE) D&D

Demolition of T520-6 Navy MARS Radion Station and the 6635 Crown Castle Communication Building was completed. Debris pile cleanup resumed on lower ALE. Cold and dark isolation and waste characterization continued on the 623A Plant Radio Relay Building. Demobilization activities are ongoing and include relocating materials and equipment to the 200 West Area.



Demolition begins on the 6635 Crown Castle Communication Building, which once supported cellular phone service operation and comprises a 165-foot-tall tower and a structure that housed radio equipment.



The 165-foot-tall tower is toppled at the 6635 Crown Castle Communication Building on the Arid Lands Ecology Reserve.



Photo 14

The remains of the 165-foot tall tower after it was lowered as part of the demolition of the 6635 Crown Castle communications structure atop the Arid Lands Ecology Reserve.

#### North Slope Debris Removal

Cleanup of North Slope debris continues in Area 15 of the Hanford Reach National Monument, where Sealaska Environmental Services, a subcontractor to CHPRC, is mobilizing and will perform a substantial portion of the debris removal. Ecological and cultural reviews are in progress for removal of debris from other areas on the North Slope.

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

A draft Action Memorandum was approved by RL and was forwarded to the Environmental Protection Agency for review. The Draft Removal Action Work Plan was forwarded to DOE for review. Comments from an internal review of the draft Sampling and Analysis Plan are being addressed. The hazard categorization determination is complete and the results indicate that the railcars remain a radiological facility. A contract is being finalized for performing the railcar disposition activities.



#### Waste Sites

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

Waste Site in Progress	Tons of Contaminated Soil Removed		
waste site in Flogress	Week Ending Oct.1, 2010	Total to Date	
216-N-6	-	8,100	
BC Control Area	7,800	223,800	
600-36	-	372	
600-38	-	111	

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

#### • 200-MG-1

- o 216-S-26: Selection of a vendor is anticipated by Oct. 10, 2010.
- o 600-36: Remediation field work is complete. Sample analyses are acceptable. The Remediation Action Report is being prepared.
- o 600-38: Remediation field work is complete. Sample analyses are acceptable. The Remediation Action Report is being prepared.
- o 600-40: In-process sampling results are below the remedial action level. Verification sampling is currently on hold and anticipated to resume in mid-October.
- o 600-275: Excavation has cleared all seven pads of soil, all of the sites have the concrete pads extracted, initial radiological surveys are complete with no radiation activity detected. Concrete processing is complete with shipping instructions awaiting clearance to stockpile the material for U canyon. Metal processing is complete. Sampling has been performed; the lab is analyzing the samples.
- 600-218: An expedient process for incorporating such changes into the contract is under development with DOE-RL.
- o 600-228: Direct push testing (DTP) is on hold and anticipated to resume next week.
- o 600-220: DPT sampling is on hold and anticipated to resume next week.
- o 600-28: A culture report is being reviewed and anticipated to be complete by late December.
- o UPR-600-12: DPT sampling is complete and awaiting sample results.

#### • 200-CW-3

- o 216-N-4: Sample results indicate remediation is complete and 216-N-4 has been down posted. Clean backfill is being staged at the site.
- o 216-N-6: Excavation is complete, initial screening was performed, and detailed down-post-surveys are complete. Sampling is complete and analyses are under way.
- o 600-286-PL: Remediation is in process with ongoing shipments to ER DF.

#### • BC Control Area

- o For Zone A, approximately 69 acres have been excavated and surveyed.
- o For Zone B, radiological down-posting surveys are in process.





Direct push test sampling wraps up at the UPR-600-12 waste site; CHPRC is awaiting sample results to determine the extent of contamination at the waste site.

Photo 15

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

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

## Facility D&D

Demolition and debris load-out is completed for the 183.7KW Pipe Tunnel. With completion of the Pipe Tunnel, demolition resumed in the 183.2 KW Sedimentation Basin with demolition of the south wall. This is the last portion of the 183.2KW Sedimentation Basin to be demolished. In the 100K East Area, demolition and debris load-out continued on the 115KE Gas Recirculation Building. Asbestos abatement continued in the 190KE Main Pump House.



Photo 16

Demolition is nearly complete on the south wall of the 183.2 KW Sedimentation Basin. This is the last portion of the 183.2 KW Sedimentation Basin to be demolished.



A small portion of wall is all that remains of the above-grade portion of the 115KE Gas Recirculation Building, a K East Reactor support facility that CHPRC is demolishing with Recovery Act funding.

Comments are being incorporated on the preliminary design documents for disposition of the 105KE Reactor. Planning continued for a multi-day design review meeting in November. A characterization completion report is being prepared.

Upgrades to the 105KW Fuel Storage Basin facility heating, ventilation, and cooling system is nearing completion. Installation of permanent power to the exterior units is complete. Leak tests of the exterior ducting were satisfactorily completed. The condenser units were installed and tested.

#### *Infrastructure Utilities Upgrade Project*

Installation of the fire water and potable water lines in the 100K Area is complete up to the tie-in points. Preparations are being made for connecting the new fire water lines to the facilities in the 100K Area.

Installation of process equipment and piping, electrical panels, and interior electrical wiring continued for the water treatment building that will be part of the Water Treatment Facility. The microfiltration system is being tested. Installation of insulation on the Water Storage Tank is complete.





Photo 18

The microfiltration unit is installed and being tested in the Water Treatment Building that is part of the Water Treatment Facility, which is under construction in the 100K Area.

Punch list items are being worked and closeout paper work is being prepared for the A9 Substation Refurbishment.

Several office facilities in the 100K Area were successfully connected to the rerouted 13.8kV lines. Punch list items are being worked. Materials have been delivered for 105KW electrical tie-in.

#### Waste Sites

The following table showcases CHPRC's progress in 100K Area waste site remediation.

Waste Site in Progress	Tons of Contaminated Soil Removed		
waste site in Progress	Week Ending Oct. 1, 2010	Total to Date	
100-K-47 (Process Sewer)	-	17,393	
100-K-53 (Glycol Heat Recovery Underground Pipelines)	-	350	
100-K-56 (Reactor Cooling Water Pipelines)	-	11,839	
100-K-63 (100-KW Floodplain)	6,461	55,353	
100-K-68 (Pump Gallery and Catch Tank)	-	9,478	
100-K-71 (Collection Box)	-	7,569	
100-K-102 (French Drains and Mercury Stained Soil near 183KW Sedimentation Basin)	222	18, 035	
116-KE-3 (Storage Basin French Drain)	-	4,328	
120-KW-1 (183-KW Filter Water Facility Dry Well)	399	28,810	





An excavator removes contaminated soil from the 120-KW-1 waste site associated with the 183-KW Filter Water Facility Dry Well and located near the former site of the 183KW Headhouse.

## **UPCOMING EVENTS**

# **RL-0011 Nuclear Materials Stabilization & Disposition**

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

- Decontaminate and remove six glove boxes/hoods in room 139.
- Complete the disposition of remaining chemicals from room 144 and initiate cleanout of the remaining five glove boxes/hoods.
- Initiate D&D work on glove boxes in rooms 179 and 185.
- Isolate and remove the second of six glove boxes from room 642 of the 2736-ZB building.
- Complete the application of contamination fixative in glove boxes HC-230C-3, -4 and -5, remove them from building ventilation, and transfer them to waste operations for disposal.
- Complete external isolations and initiate decontamination of glove boxes 100A and HA-46.
- Continue removing process vacuum and process transfer piping.
- Begin isolation and cleanout of glove box WT-2 in 242-Z building.
- Authorize use of Aspigel® as an alternate decontamination process and deploy it to the field for chemical decontamination.



# RL-0013 Solid Waste Stabilization & Disposition

RL-0013C:R1.1: MLLW Treatment

• Planned shipment of two boxes (6.4 m<sup>3</sup>) of LLW non-debris from CWC to PFNW.

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

- TRU Retrieval
  - o 3A burial ground:
    - Issue Trench 17 Box 12 work package 2X-10-2586 and remove box from trench.
    - Continue work planning for Trench 17 Box 27 removal and shipment.
    - Continue excavating Trench 17 to expose sides of waste containers.
    - Develop and review operating documentation for the portable containment enclosure in preparation for repackaging of Trench 17 Box 80.
    - Continue excavation and retrieval of Trench 8 containers.
    - Complete assay campaign for retrieved Trench 8 containers.
  - o 4B/4C burial grounds:
    - Assess 4B Trench 11 sub-surface survey data.
    - Conduct 4B Trench 11 retrieval planning.
    - Validate Mobile Radioactive Decontamination Unit operating procedure.
    - Perform mock-up of Trench 11 excavator interrogation event site.
  - o 12B burial ground:
    - Continue mock-up retrieval activities for contact-handled and high-dose waste drums in the Simulation Test Site Trench.
    - Complete calibration, confirmation, and verification of the PAN assay system.
    - Complete the acceptance and operational tests for drum venting system 3.
    - Complete the operational test on the RTR/drum warming unit.
    - Validate and approve remaining operating procedures for the Next Generation Retrieval Project.
- TRU Repack
  - o Five planned TRUPACT-II shipments.
- Suspect TRU Waste Shipments
  - o No planned shipments this week.

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

RI -0030.R1: Central Plateau Soil & Groundwater

- Continue construction of the 200 West and DX Groundwater Treatment Facilities.
- Continue decommissioning wells across the site.
- Continue drilling at 100-BC-5, 100-HR-3, 100-KR-4, 100-FR-3, 200-ZP-1, and 300-FF-5.

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

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

- Continue debris load-out of the 224-U and 224-UA facilities.
- Continue asbestos abatement in the U Canyon galleries.
- Continue demolition preparations for the 284-E Powerhouse.
- Continue demolition of the crusher house and conveyor building at the 284-E Powerhouse.
- Award contract for the explosive demolition of the 284-E Powerhouse stacks.
- Perform final cleanup and demobilization for the 272-E Fabrication Shop.



- Continue preparations for demolition of the 209-E Criticality Mass Laboratory.
- Continue demolition planning and characterization of the 200 West Area industrial facilities.

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

- Continue demolition of upper ALE communication facilities.
- Continue debris pile cleanup activities on lower ALE.
- Continue demobilization activities on the ALE Reserve.
- Continue removing debris and processing cultural and ecological reviews for removing debris from the North Slope.
- Continue planning, document preparation, and compilation of characterization information for the 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 of the 183KW Sedimentation Basin structures and the 115KE Building.
- Begin demolition of the 1706KE/KER substructures.
- Continue activities for upgrading the 105KW HVAC system.
- Continue preliminary design and characterization activities for disposition of the 105KE Reactor.
- Continue with the Infrastructure Utilities Upgrade Project activities.
- Continue remediating contaminated soil from waste sites.

