River Corridor Cleanup Progress

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River Corridor: Progress in 300 Area
Preparing the 340 tank vault for transport and disposal at ERDF. The Columbia River is in the background. October 2013.
River Corridor: Progress in 300 Area

The 308A TRIGA test reactor was transported to ERDF for disposal in December 2012 (250 tons).
Workers are disconnecting and removing piping system 32-feet below the Plutonium Recycle Test Reactor (309 PRTR) reactor. The 1,100 ton reactor compartment is being secured and prepared for lifting out of the ground in the 300 Area.
FY 2013 Progress
River Corridor: 618-10 Burial Ground
F Area – First Reactor Area Completed

100-F Reactor Area during operations

100-F Area in 2012
B/C Area Cleanup – Before and After
Work to Go” Summary

- Majority of River Corridor work will complete by 2015, except:
  - 100-K Area (PRC/inside the fence)
  - 324 Building
  - 618-10/11 Burial Grounds

- Final RODs are not expected to require rework of previously remediated sites.
  - Final RODs may provide relief for cleanup of petroleum (100-N) and uranium (300 Area).
309 Plutonium Recycle Test Reactor

Lifting and Transport Configuration
Breach in B Hot Cell Liner

Geoprobe installed with results below:

Max. dose 8,900 R/hr.

B-Cell

Probe Tubes

Geoprobe

Radiation Level

Max. dose 8,900 R/hr.
100-B/C Area

- Remediation of deep chromium contamination at 100-B/C Areas completed in February 2013.
- Backfill and re-vegetation of 100-C-7 is complete.
- Backfill of 100-C-7:1 will complete in FY14.
618-10/11 Burial Ground Remediation

- 618-10/11 Burial Grounds supported 300 Area operations.
- Contains both contact and remote handled low level and TRU wastes.
- Good progress in 618-10:
  - Started in April 2011 under ARRA
  - Over 97,000 tons of waste from trenches disposed at ERDF
  - Over 500 drums removed
  - 72 drums sent to Perma-Fix for processing
- Trench retrieval was stopped Nov. 2012 due to NDA modeling issues for concreted drums.
- Trench work restarted August 2013
- Planning to complete trench remediation in 2014
- Lessons learned at 618-10 will be applied to 618-11 remediation.
- 618-11 start planned in 2015 after CGS license amendment approval.
D and H Areas: Removing the Chromate Source

- Significant groundwater contamination in the 100-D/H Areas.
- Remediation of 100-D-100 deep chromium will complete this fall.
- Remediation of other deep chromium contamination has started and will complete in early 2014.
- 152 of 196 waste sites completed.
N Area - Waste Sites, Bioremediation and Barriers

- Completed placing N Reactor into Interim Safe Storage in 2012.

- In-situ bioremediation system to treat deep soil petroleum contamination is operational. Extensive shallow petroleum contamination being remediated.

- Extensive remediation of waste sites adjacent to N Reactor due to radioactive contamination. 148 of 168 waste sites completed.