



U.S. DEPARTMENT OF  
**ENERGY**

Richland  
Operations Office

# River Corridor Cleanup Progress

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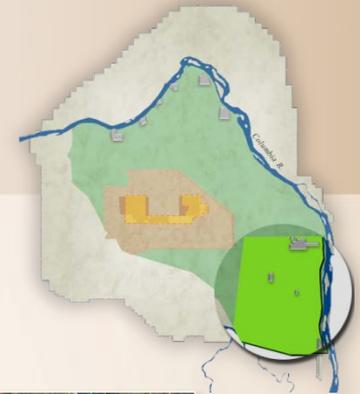
*November 13, 2013*



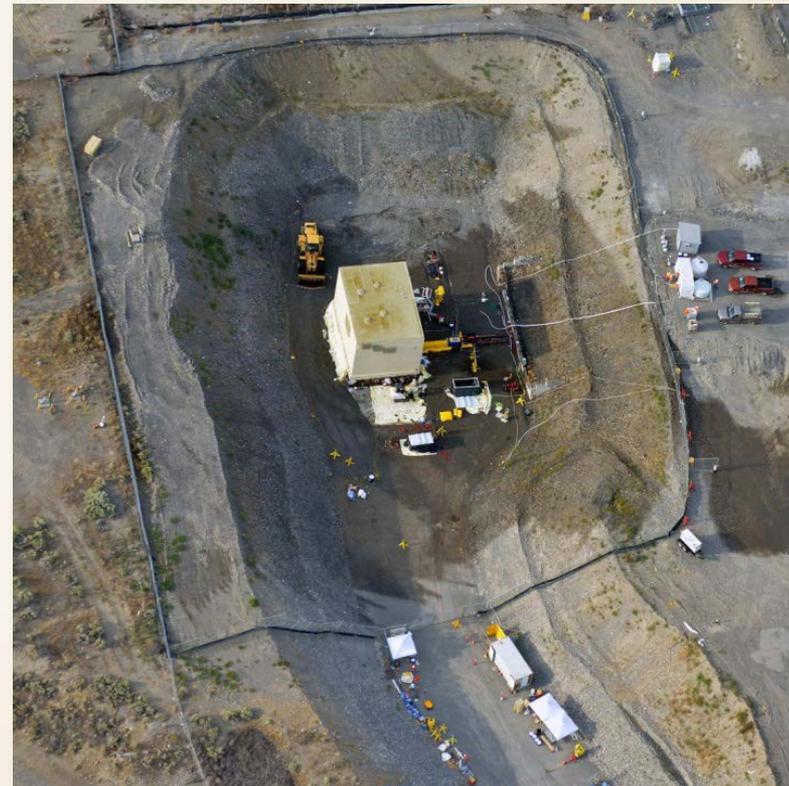
# River Corridor: Progress in 300 Area



# FY 2013 Progress River Corridor: 340 Vault



*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).



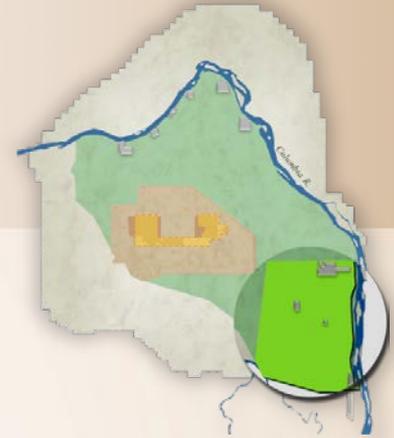
326 Building demolition – October 2013

# FY 2013 Progress River Corridor: 309 Building



*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*

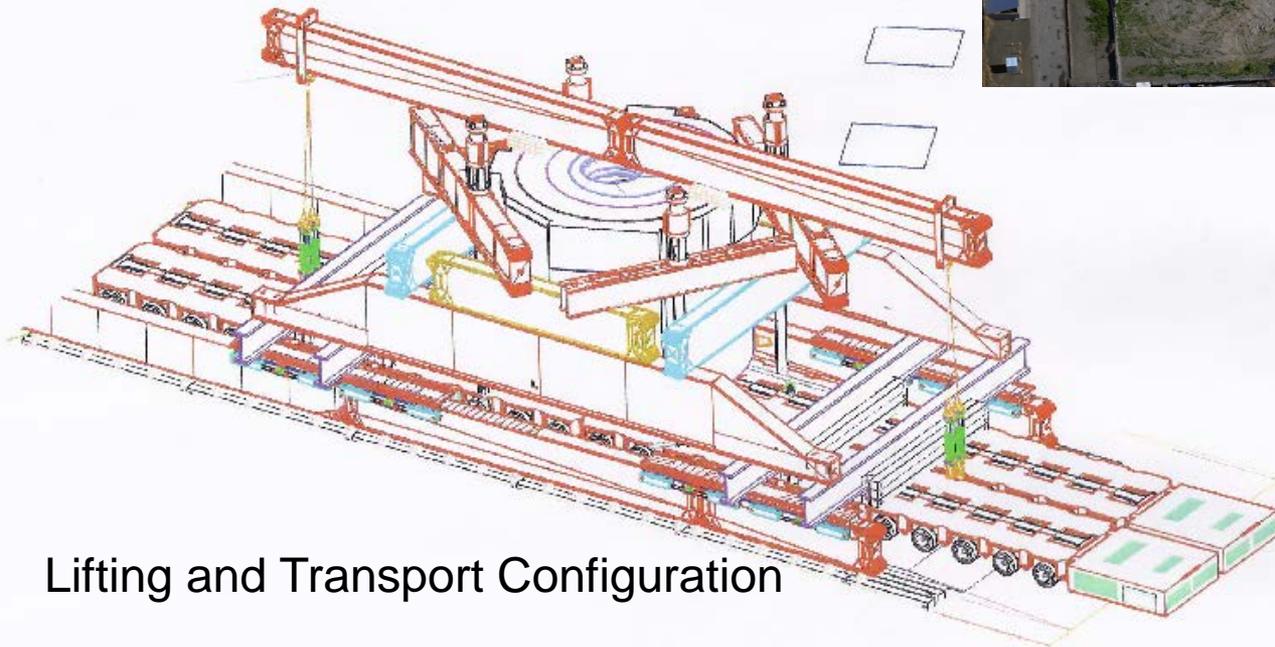
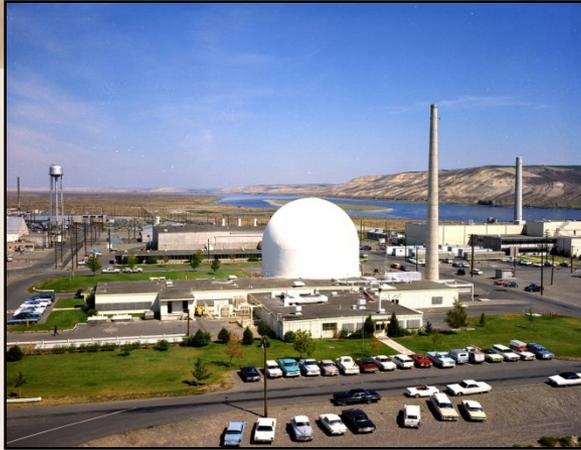
# B/C Area Cleanup – Before and After



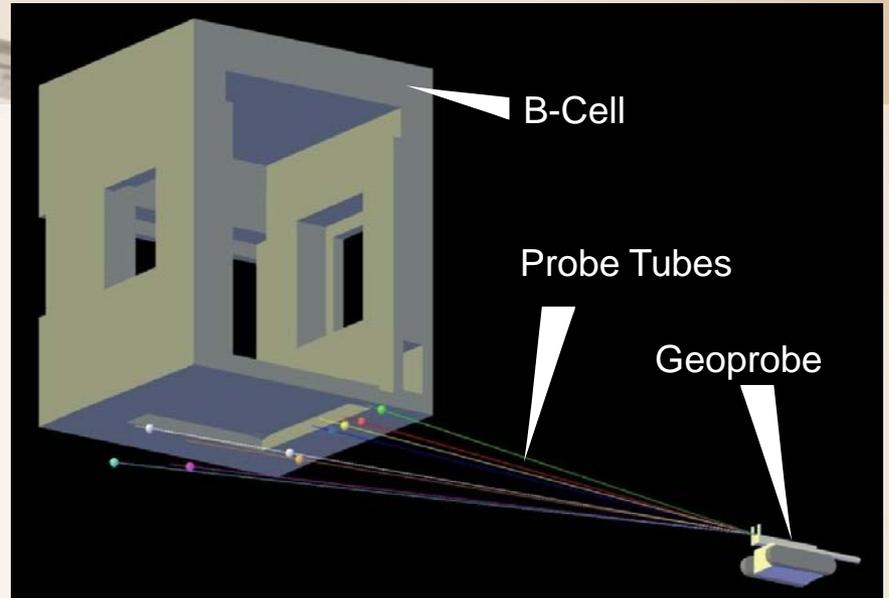
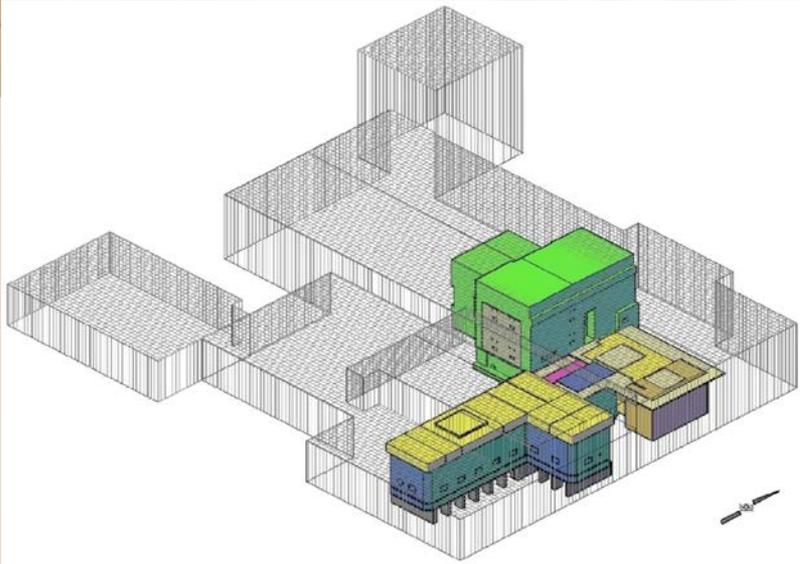
# Work to Go” Summary

- 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).

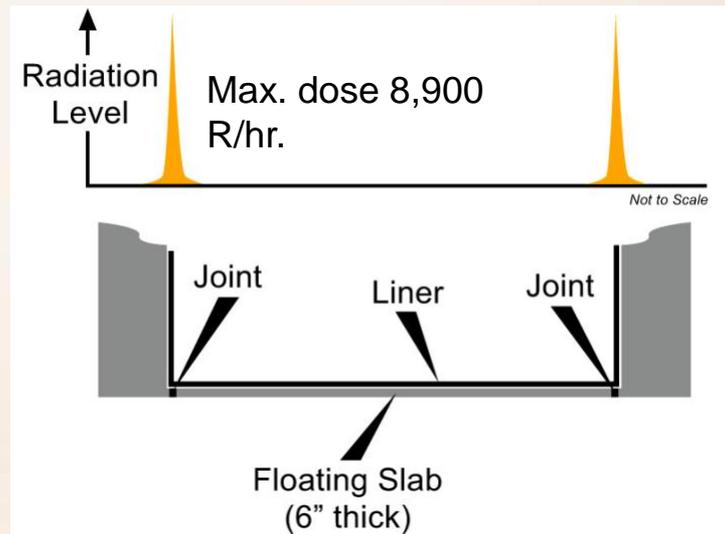
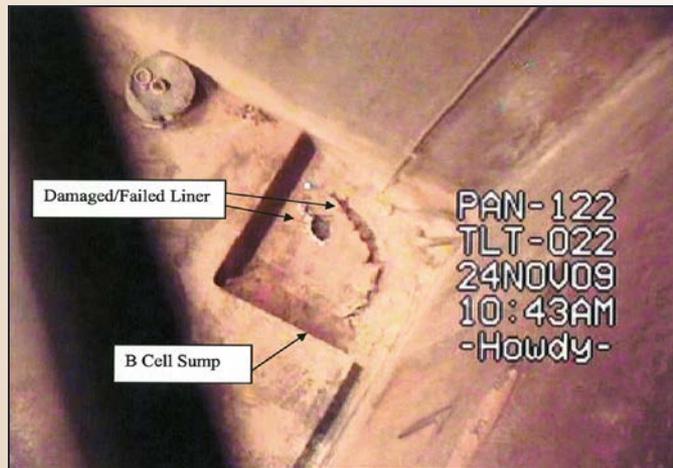
# 309 Plutonium Recycle Test Reactor



# 324 Chemical Materials Engineering Laboratory



Geoprobes installed with results below



Breach in B Hot Cell Liner

# 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

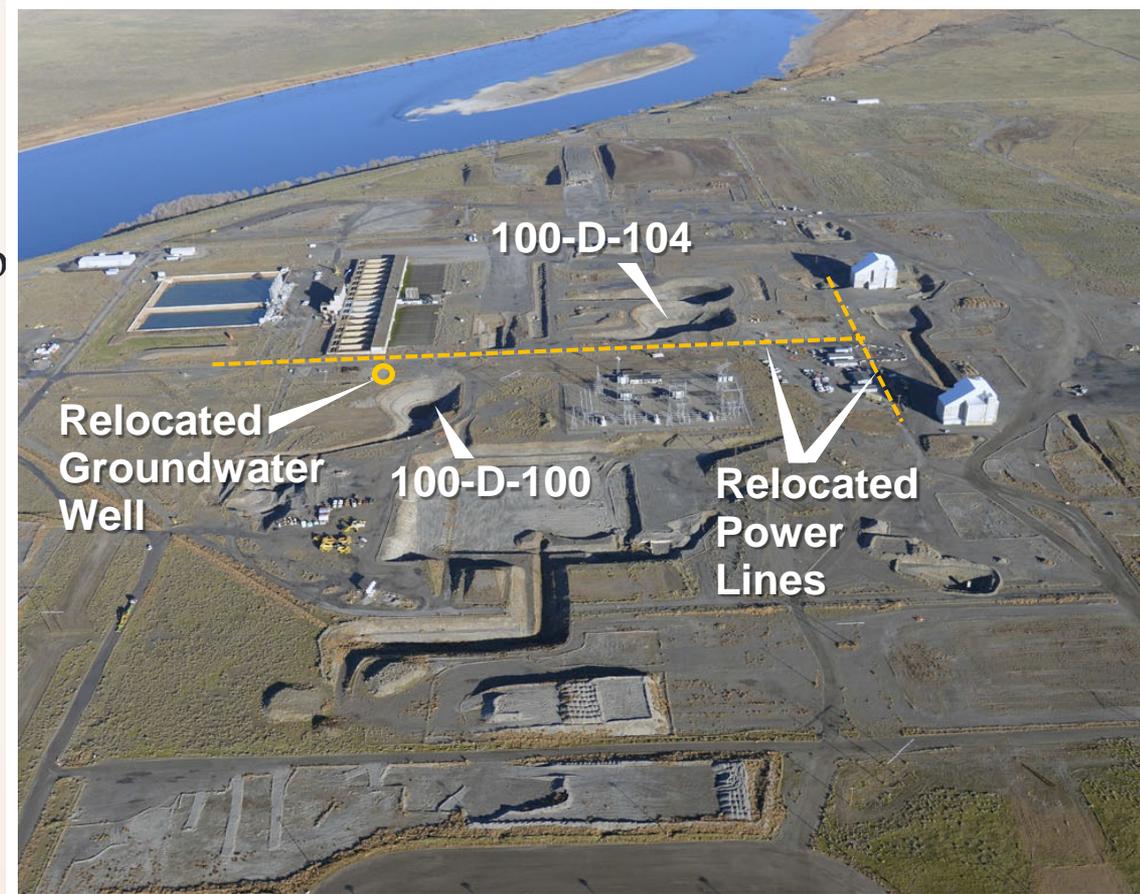
- 618-10/11 Burial Grounds supported 300 Area operations.
- Contains both contact and remote handled low level and TRU wastes.
- Good progress in 618-10:
  - Started in April 2011 under ARRA
  - Over 97,000 tons of waste from trenches disposed at ERDF
  - Over 500 drums removed
  - 72 drums sent to Perma-Fix 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.



**Workers  
sampling  
drums retrieved  
from one of the  
trenches**

# 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.

