



2014



The Future



Plutonium Finishing Plant (PFP) Closure Update

River & Plateau Committee
Hanford Advisory Board

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PFP Closure Project

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Plutonium Finishing Plant

- Mission: Safely and compliantly demolish PFP to slab-on-grade by 2016



PFP: plutonium processing facility decades past its design life



PFP Recent Accomplishments

- Continued Glovebox/Hood deactivation activities:
 - Removed HC-17 (HC-17P, HC-17DC, HC-17SBB) in March
 - Completed HA-40F, in room 166, during the month of March
 - Completed HA-7A (in room 235-A3) and HC-4 in backside rooms in May
 - PFP, 28 GB's remaining
 - Key Performance Parameter - 1, 7 GB's remaining
- Continued work in PRF
 - Completed 16 Pencil Tank units (PTU) in March
 - Completed PT 31/28A in April
 - PFP, 60 PTU's remaining
 - 4, PTU's remaining for FY14 Key Performance Goal completion
- The improved breathing air system Generator Modules were delivered on March 31, 2014

*Backside Room Glovebox
HA-40F in Room 166*



*Breathing Air System
Generator Modules*



Air Compressor and Supply Bottles

Plutonium Finishing Plant Progress

Progress

- 55 of 81 facilities demolished
- 210 of 238 glove boxes removed
- 136 of 196 pencil tank units removed

Challenges

- Crews are preparing to enter the McCluskey Room in late summer/early fall timeframe
- New strategy of removing large glove boxes from the facility



Workers remove a glove box



Workers train at HAMMER



Crews soon will begin demolishing support structures

Progress: Removing Hazards Inside

	Original	Remaining
Glove Boxes Removed	238	28
Pencil Tank Units Sealed out	196	66

Progress to-date

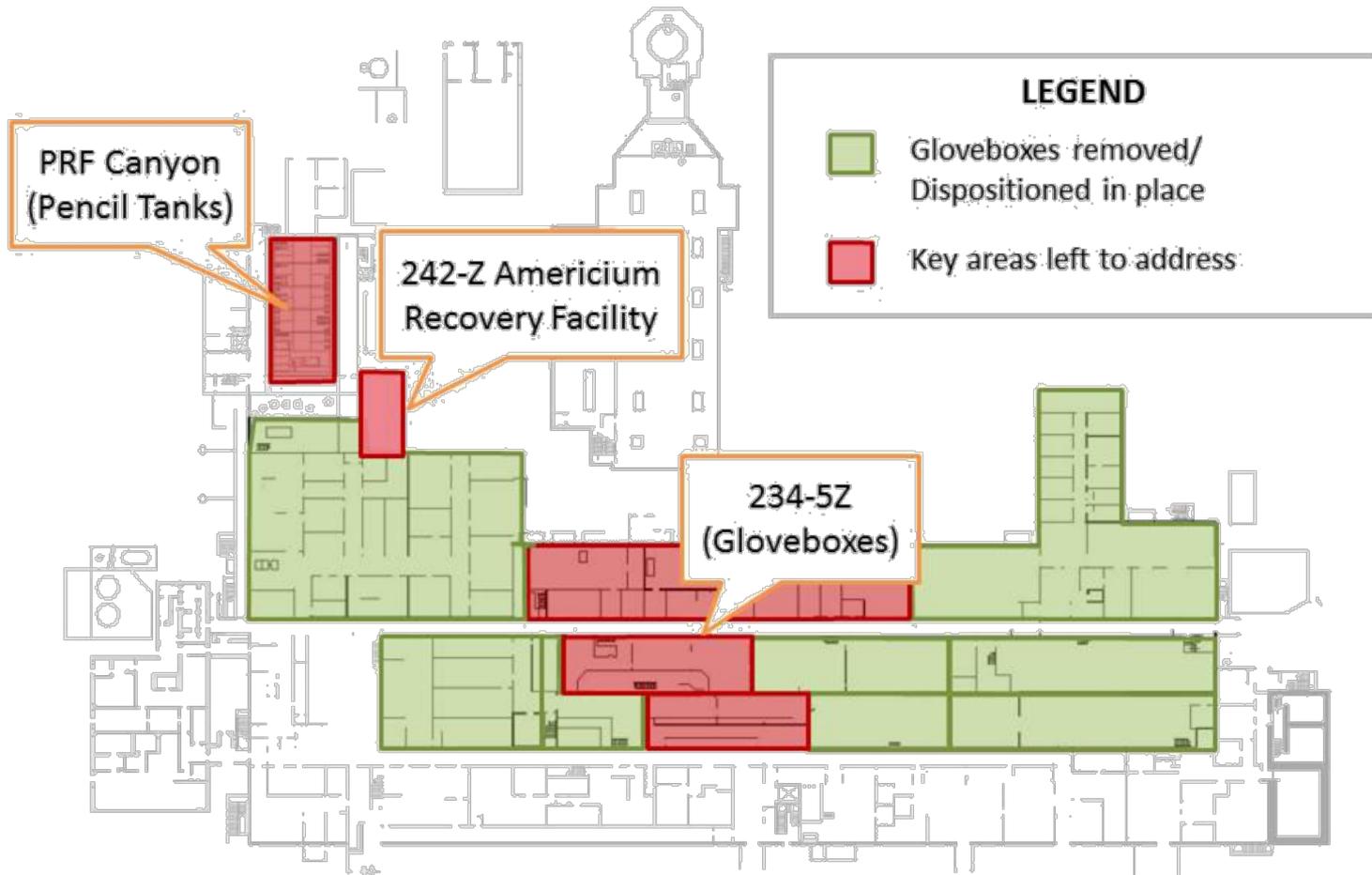
- 88% glove boxes removed
- 69% pencil tank units sealed out
- 33 ancillary buildings demolished/removed from the PFP complex



Current Activity Overview

- Plutonium Reclamation Facility (PRF) Pencil Tank Size Reduction (66 units remain)
- PRF Gallery, Miscellaneous Treatment, and Column Glove Box cleanout & isolation
- PRF Cold and Dark Preps
- Remote Mechanical (RM) A Line glovebox isolation, cleanout and separations
- RM - C Line glovebox isolation, cleanout and separations
- Preparing for 242-Z entries
- 8 ancillary facilities being readied for demo
- Characterization and demo preps throughout
- Min-safe maintenance, surveillances, rounds, and routines

Remaining Work



Overall deactivation is 71% complete

Tri-Part Agreement Milestone Summary

TPA Milestone	Due Date	Status	Milestone Description
M-083-24-T01	09/30/16	On Schedule	Submit Rv. 0 of the PFP Complex S&M Plan to Ecology
M-083-44	09/30/15	In Jeopardy	Complete transition of 234-5Z & -ZA, 243-Z, 291-Z and 291-Z-1 buildings to support decommission, deactivation, and preparation for dismantlement of the above grade portions of these PFP facilities
M-083-00A	09/30/16	In Jeopardy	Complete PFP Facility Transition & Selected Disposition Activities

Updating the Safety Analysis

Challenge: stepping out of fire, criticality, and ventilation systems

- Define facility condition and deactivation and demolition hazards present during each phase
- Revise Fire Hazards Analysis to reflect specific facility conditions during each phase
- Define allowable hold-up in glove boxes, pipe and duct during each phase

Changing the Conversation

Challenge: transitioning the culture from surveillance and maintenance to deactivation and demolition

- Ensure understanding and acceptance of:
 - Unique challenges of deactivation and demolition
 - Standards, requirements and allowances for deactivation and demolition
 - Changing risk levels

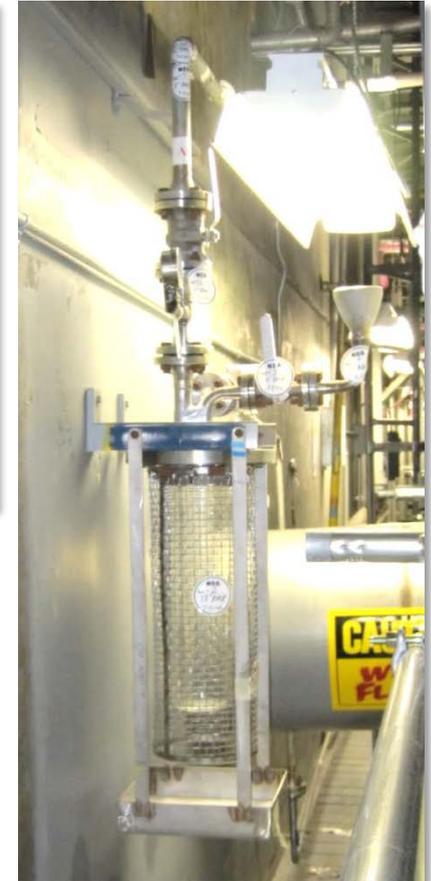
Plutonium Finishing Plant

Glove Bag Incident

- Workers heard loud noise, saw orange-red flame when cutting into 1-inch diameter pipe
- The work was being conducted inside a sealed plastic glove bag
- The glove bag was not burned and workers saw no sign of damage or pressurization of the bag
- No injuries. Surveys did not detect any spread of contamination



The pipe was part of a demister system that was being dismantled. The demister line being size-reduced inside of the glove bag



Timeline

- December 2014: Last glove box cleaned out & stabilized
- January 2015: Demo prep begins
 - Grouting, drain line removal, asbestos abatement
- Spring 2016: Demolition begins
 - March: 234-5Z begins
 - May: 291-Z begins
 - June: 242-Z begins
 - July: 236-Z begins

