Plutonium Finishing Plant Closure Project Update

Tom Teynor, DOE-RL

Federal Project Director

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Plutonium Finishing Plant (PFP) Project Status Update

• Demolition Progress
  – Americium Recovery Facility (McCluskey Room) .................. Complete
  – 291-Z Ventilation Stack .......................................................... Complete
  – Fan House (291-Z) ................................................................. 95% Complete
  – Plutonium Reclamation Facility (236-Z) .............................. 44% Complete
  – Main Processing Facility (234-5Z) ................................. 2% Complete
  – TPA Milestone M-083-00A .................................................. September 30, 2017

• Final Pre-Demolition Hazard Reduction Work (234-5Z)
291-Z Fan House and Ventilation Stack Demolition
234-5Z Main Processing Facility Demolition Preparation

- Glovebox (GB) Pathway Preparation
- GB HC-7C Removal
- GB HC-227T Removal
- HEPA Filter Box Removal
- HEPA Filter Box Packaging
234-5Z Main Processing Facility Demolition Preparation

E4 Exhaust Duct and 26” Vacuum Line Packaging and Loadout

E4 Duct Stub Removal

E4 Duct Stub

Asbestos Removal

Tunnel Drain Line Epoxy Fill & High Visibility Paint
Plutonium Reclamation Facility (PRF-236-Z)
June 8th Continuous Air Monitor (CAM) Alarm Response During 236-Z Gallery Glovebox Removal

- Area placed in safe configuration
- PFP employees instructed to take cover
  - Go inside and turn off ventilation
- Re-entry team evaluates CAM
- Site surveyed
  - Fixative applied to any contamination found
  - Egress path established for employees

Perspective:
CAMs set conservatively at 8 dac/hr (~6 mrem)
Typical chest x-ray: ~10 mrem
June 19, 2017 Site Survey Map
Site Map - Radiological Monitoring Stations

Legend:

△ = Continuous Air Monitor (CAM) + Cookie Sheet
○ = Fixed Air Sampler (FAS) + Cookie Sheet
★ = Cookie Sheet
Corrective Actions Following Alarm

• Re-sequence building demolition
• Revise demolition work package to ensure water cannons are in the “mist” and not “full stream” mode
• Place temporary HEPA filtered ventilation exhauster units on the PRF canyon to draw a negative pressure on the remaining gallery glove boxes and canyon
234-5Z Zone-by-Zone Demolition