

PFP Recovery Update – January 30, 2018

Updated 2:00 p.m. PST

Updates since January 29, 2018 highlighted

**CHPRC is not authorized to conduct PFP demolition work until DOE has been briefed and concurs with the path forward. The focus at PFP is on the health and safety of the workforce, addressing worker concerns, ensuring PFP remaining facility debris and rubble piles are stable, and mitigating the potential for any additional spread of contamination**

**Plant Status**

System/Area	Status
PFP Workforce	<ul style="list-style-type: none"><li>On Jan. 29, while surveying the 200E garage pit, a radiological control technician (RCT) bumped their head. No hard hat was required to be worn at the time. The RCT was taken to the on-Site medical provider and was released with no restrictions.</li></ul>
PRF Area	<ul style="list-style-type: none"><li>During follow-up surveys conducted after the discovery of the contaminated work boot Jan. 29, a speck of contamination was found on the south step entering MO-287 (outside of the work control zone). This contamination was removed Jan. 29 with a tape press and allowed to decay overnight. Further analysis Jan. 30 determined the presence of alpha contamination (2,464 dpm/100 cm<sup>2</sup>) on the tape press. Following discovery of the contaminated boot, a complete survey of MO-287, its occupants and surrounding grounds and walkways was done and no other contamination was detected. The PFP has instituted mandatory radiological control technician-conducted surveys upon exit from Radiological Buffer Areas (RBA). Self-surveys upon exit from PFP RBAs are no longer permitted. The contaminated work boot was discovered as the instrument technician wearing it entered the PFP radiological controlled area, inside the work control zone. This was a short distance from MO-287 which is outside the work control zone.</li><li>Due to predicted high winds on Jan. 27, the work control zone was evacuated and secured, per procedure implemented following the December 2017 events. After no contamination was detected in follow-up surveys, PFP Shift Office access to the work control zone was reestablished on Jan. 30 at 12:25 p.m.</li></ul>
PFP Property Area	<ul style="list-style-type: none"><li>Fixative application and retrieval of government property from office trailers inside contamination areas is ongoing.</li><li>During the week of Jan. 29, a small group of PFP employees will perform maintenance on already-filled transuranic waste drums at PFP. CHPRC distributed an all-employee message on this topic (<i>Attachment 1</i>).</li></ul>

## Radiological Surveys, Sampling and Analysis

### On-Site and Environmental:

Cookie Sheets (64 total)		
	Jan. 30 Day Shift	Jan. 29 Swing Shift
Number Surveyed	46	No surveys due to wind restriction; swing shift surveys will occur Jan. 30.
Number Clean*	46	
Number Contaminated (Note location and level)	0	
*Clean = direct contamination < 500 dpm/100cm <sup>2</sup> and removable contamination < 20 dpm/100cm <sup>2</sup> (or < 100 dpm/100cm <sup>2</sup> in a posted CA or HCA)		

- **Continuous Air Monitor** Readings (15 total): All CAMs reading <1 DAC-hr as of 1:00 p.m. PST Jan. 30.
- **Samplers** (22 total): Air samples exchanged with no indication of activity, other than radon, as of 11:00 p.m. PST Jan. 26.

**Bioassays:** The table below provides an initial summary of bioassay results following the spread of contamination in December. The date is current as of Jan. 30 at 9:30 a.m. This information will be updated as more results are received. Individual employees are briefed on their bioassay results as soon as the results are available.

Requested	271
Negative	109
Initial Positive	1
Less than 1 mrem: 0	
1-10 mrem: 0	
10-20 mrem: 1	
Positive with Verified Dose	1
Less than 1 mrem: 1	
1-10 mrem: 0	
10-20 mrem: 0	

- Doses are the expected dose over 50 years.
- DOE dose limits are 100 mrem/year for non-rad workers and the public onsite (DOE O 458.1) and the Hanford the Hanford Administrative Control Limit for Rad Workers is 500 mrem/year.

**External:** More information about Washington State Department of health environmental sampling results are available at [hanford.gov](http://hanford.gov), including a map and survey data.

- **Government Vehicle Radiological Surveys:**
  - There have been 19 new requests for re-surveys of government-controlled vehicles. These vehicles were already surveyed, with no contamination discovered, in December. CHPRC began conducting those surveys on Jan. 30.
  - Surveys to PFP-controlled government vehicles were completed Jan. 23. Decontamination and dispositioning of 27 contaminated vehicles is ongoing. Those vehicles remain in a posted contamination area.

	Total
<b>PFP-Controlled government vehicles surveyed</b>	97
Decontaminated and returned to service	2

Contaminated and awaiting disposition (held as radiologically-controlled vehicles or decontaminated)	27
No contamination found and returned to service	68

- **Personal Vehicle Radiological Surveys:**

- A follow-up survey will be conducted Jan. 31 of a rental car that was on the Hanford Site in December and was decontaminated and released. The follow-up survey is being conducted after additional contamination was discovered on another personal vehicle that had been left on the site since Dec. 18. More information is available on the Jan. 29 DOE-RL all-Site message distributed Jan. 29.

- **Home Surveys:** There have been no new requests for home surveys. All requested (seven total) home surveys completed (Dec. 20) with no contamination found.

#### **Future Actions**

- Daily contamination surveys will be conducted.
- Continue to monitor air samplers.
- Application of fixative and soil will occur as weather allows

#### **Workforce Management**

- The workforce remains committed to the current mission of hazard recognition and control, despite the challenging situation.

#### **Communications**

- On Jan. 30, the *Tri-City Herald* [published a story](#) regarding management changes at CHPRC and additional personal vehicle surveys.