

Meeting Minutes
Plutonium Finishing Plant (PFP)
Project Managers Meeting
825 Jadwin/641
January 20, 2016



Date: 02/25/2016

Project Manager Representative, DOE-RL



Date: 2/25/16

Project Manager Representative, Ecology

Administrative Record	H6-08
JB Borghese, CHPRC	H8-43
TE Bratvold, CHPRC	T5-60
BJ Dixon, CHPRC	T5-60
GR Konzek, RL	A6-38
E Laija, EPA	A3-46
SM Mortensen, Ecology	H0-57
SN Schleif, Ecology	H0-57
TK Teynor, RL	A6-38

The Minutes from the December 3, 2015 meeting were approved and will be placed in the Administrative Record. The January 20, 2016, attendance roster is attached. Personnel from Ecology's air program and from the Washington Department of Health (WDOH) were present for a briefing on the Air Dispersion Model for the open air demolition of PFP.

Air Dispersion Model Briefing

Brian Oldfield (CHPRC) provided a briefing on the results of air dispersion modeling for the demolition of the PFP Complex. Information about current demolition methods, sequencing, source term, and controls were used to update modeling that was done about five years ago. EPA's AERMOD Modeling System was used by PNNL modeling experts to produce the dispersion model. AERMOD was used because it can produce a steady-state plume model that can address building wake effects and other aspects of importance to the PFP demolition activities. Isotopes of concern are the transuranics.

The model is based on assumed contamination levels at the time of demolition. For the 236-Z building the assumed contamination level for the canyon walls and ceiling is 25 nanocuries per gram. Results of the model are provided in derived air concentration hours per week (DAC-hr/week) for air exposure and in disintegrations per minute per 100 centimeters² (dpm/100cm²) for deposition. The model predicts (95th percentile) air exposure levels of 1 to 3 DAC-hr/week in the area adjacent to the PFP complex during the 236-Z demolition but would not be expected to exceed 0.2 DAC-hr/week beyond the facility fence during demolition of 234-5Z, 242-Z, 291-Z, and 291-Z1.

Phil Gent (Ecology) asked about some of the details of the model and was informed the model will be issued soon and that information could be provided. He also asked about contingency planning for events such as dropping a glove box and was told that such scenarios had been evaluated. Brian Dixon (CHPRC) noted that the air dispersion model was developed as a tool to guide demolition practices rather than to satisfy a regulatory requirement. Adjustments to reduce the source term, enhance controls, slow down the demolition rate, etc., can be made to manage emissions.

The WDOH representatives did not believe it would be necessary to move any of the existing ambient air monitors in the site-wide network but did request that WDOH be allowed to co-locate monitors. If WDOH would like to have monitors at locations other than those planned to be powered by PFP, advance notice from WDOH would be necessary to support their setup (e.g., temporary power). Ecology requested that DOE follow up with Ecology when the report is issued.

Action Status

Action	Actionee	Status
RL to share information on the air dispersion model and discuss relocation of near facility monitors with WDOH.	RL	Draft air dispersion model results were presented at the meeting in the form of a PowerPoint presentation. A follow-on action will be established to provide Ecology with additional information after the report is issued.
Track progress in development of a SAP for slab removal by providing a status update during PFP Project Manager Meetings. A briefing to Ecology will be provided prior to their review of the document.	RL	The SAP progress was added to the agenda and will remain a routine topic until the SAP is approved.

The PFP Milestone Status (Glenn Konzek, RL and Mike Swartz, CHPRC).

- M-083-24-T01, *Submit Revision 0 of the PFP Complex Surveillance and Maintenance (S&M) Plan to Ecology*. 06/30/2016 (On Schedule)

Draft C of the PFP S&M Plan is entering the final reviews and is expected to be available for Ecology review in February. After discussion about status of the plan under the TPA Action Plan Section 9.0 process for review of primary documents, Ecology asked for clarification.

- M-083-00A, *Complete PFP Facility transition & selected disposition activities. Completion of this major milestone includes the following key elements: 1) completion of all activities necessary to achieve end point criteria established through Milestone M-83-20 for placing the PFP facility in a safe and stable S&M mode, 2) completion of all activities described in the approved M-83 series interim milestones and target date; and 3) completion of the balance of PFP selected disposition activities pursuant to the final action memoranda and work plans. Also see "description/justification" contained in change form M-83-01-03*. 9/30/2016 (At Risk)

The milestone continues to be at risk due to the challenges that were discussed at the previous PMM and some additional ones that came up during December. (See next section for additional information.) The current Field Execution Schedule was reviewed. Ecology asked if the "Change from Last Week" column on the schedule could be changed to report monthly rather than weekly changes to reflect the frequency of the PMM.

Project Progress, Issues, Concerns, and Challenges (Glenn Konzek, RL)

Mr. Konzek noted that progress in December was slowed due to a work pause involving some of the higher hazard work. The precipitating event was the discovery of radioactive contamination on a respirator vortex cooler unit at PFP on December 10, 2015. An extent of condition review identified some previously used vortex cooler units that were undergoing maintenance at the Hanford Fire Department when the contamination was discovered at PFP. In addition, it was determined the local Mine Safety Appliance (MSA) vendor representative had picked up eleven vortex units from the Hanford Fire Station for investigation of failed units. Three vortex units were still at the vendor's residence in the Tri-Cities, but eight had been shipped out of state to Ohio, then from there to Pennsylvania. Radiological Assistance Teams from DOE were activated and radiological surveys were performed. Two of the vortex units at the vendor's residence had fixed contamination below release limits, the third unit had no detectable contamination. All three units were returned to Hanford and dispositioned. The Ohio MSA vendor facility was surveyed on December 16, 2015 and no detectable contamination was found. The eight units residing in Pennsylvania, as well as the facility where they were stored and handled were surveyed on December 17, 2015 and no detectable contamination was found. All of the units were recovered and brought back to Hanford and corrective actions were taken to avoid similar problems in the future. Contamination was subsequently found on a regulator from a Self-Contained Breathing Apparatus that was at the Hanford Fire Department for maintenance. Surveys were performed and the regulator was dispositioned appropriately. These events, coupled with previous first aid incidents and skin contamination events resulted in a management decision to pause work during the Holidays and resume work in a phased manner as soon as management determined that actions taken were sufficiently robust to enable work to be performed safely and compliantly.

Further information was provided about upcoming activities that are intended to evaluate readiness to demolish 236-Z, 242-Z, and 234-5Z. An emergency preparedness exercise is still planned for the week of

January 25th. The Readiness Assessment is expected to start the end of February. RL agreed to provide a briefing at the next PMM.

234-5Z Plutonium Finishing Plant. In-situ size reduction of glovebox HA-9A needed about eight work evolutions to complete when the work pause was implemented. The work was restarted January 19th and is expected to be complete the second week of February. DSA revision 12 took effect January 11, 2016, and DSA revision 13 is expected to be approved in the next couple of weeks.

236-Z Plutonium Reclamation Facility. A significant accomplishment was the grouting of the 236-Z canyon floor. Four to nine inches of grout was placed over the floor. The grout will make it safer for workers by reducing contamination levels and providing a better working surface. It will also facilitate further characterization and decontamination of the canyon. Waste management activities are also underway to package remaining Pan J waste, inspect previously packaged waste and to ship wastes for storage pending disposal. Results from laboratory analysis of J Pan wastes are expected to be available February 25th. Ecology requested information about the results when available.

242-Z Americium Facility. Work in 242-Z continues to focus on the tank room. About 20 entries are need to finish the work on the tanks. Revision 13 of the DSA will allow tanks to be removed whole as part of the demolition process vice size reduced beforehand.

Slab Removal Sampling and Analysis Plan (SAP)

A meeting was held with a variety of worker disciplines within CHPRC to gather ideas and to further refine the slab removal approach. The meeting helped identify information that will be available at the time of removal and what additional information will be needed to safely remove the slabs and characterize the waste for disposal. The earlier version of the SAP is being revised to incorporate the results of the meeting and is expected to be ready for a presentation to Ecology at the end of February with transmittal to Ecology for review in mid-March.

Ecology Topics (Stephanie Schleif, Ecology).

Ecology requested a presentation on the Readiness Assessment. The CHPRC Environmental Management System targets (goals) for completing the PFP reports documenting the results of the thorough inspection for asbestos were discussed and Ecology requested a copy of the report or a summary be shared with the agency.

Meeting Summary

- There were no approved changes signed off in accordance with section 12.2 of the TPA action plan.
- Actions:
 1. Track progress in development of a SAP for slab removal by providing a status update during PFP Project Manager Meetings. A briefing to Ecology will be provided prior to their review of the document.
 2. Provide additional information on the air dispersion model when it is issued.
 3. Provide a status of the S&M Plan review under the TPA Action Plan Section 9.
 4. Provide a briefing on the Demolition Readiness Assessment.
 5. Share results on the J Plan waste analysis.
 6. Share asbestos thorough inspection results when completed.

Next Meeting Date and Location

- The next Project Managers Meeting is scheduled for February 25, 2016 at 3:30 p.m. in the Federal Building.

PFP Project Managers Meeting
825 Jadwin/641

January 20, 2016
ATTENDANCE LIST

	Name	Organization	Phone Number
1.	Brian Dixon	CHPRC	376-7053
2.	DESTRY HENDERSON	"	376-8644
3.	James Leary	"	442-6625
4.	Tom Ferns	DOE-RL	376-7474
5.	CHRIS PERKINS	MSA	376-2049
6.	Eric Faust	DOE-RL	376-9607
7.	M. K. SWARTZ	CHPRC	373-0078
8.	Brian Oldfield	CHPRC	373-2707
9.	Allison Wright	DOE/ESA	539-3839
10.	PHILIP GENT	ECY	372-7983
11.	Dan Beers	WDOH	943-6505
12.	Ben Conroy	WDOH	
13.	Stephanie Schlif	Ecology	372-7929
14.	Glenn R. Konzek	DOE-RL	376-8399
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			