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Meeting Minutes
Plutonium Finishing Plant (PFP)
Project Managers Meeting
825 Jadwin/641
July 14, 2016

Date: 8/31/2016

Project Manager Representative, DOE-RL

Date: 8/31/16

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**
SN Schleif, Ecology	**H0-57**
TK Teynor, RL	**A6-38**
KA Wooley, CHPRC	**T5-60**

Briefing on Sampling and Analysis Plan

Brian Dixon (CHPRC) provided a briefing on Draft A of DOE/RL-2016-25, *Sampling and Analysis Plan for Removal of the 236Z and 242Z Slabs* (SAP). The briefing presentation is attached to these minutes. A copy of the SAP was provided to those in attendance and it will be transmitted formally by DOE-RL to Ecology to start the 45 day review period per Chapter 9 of the TPA Action Plan. Ecology will consolidate regulatory agency comments from review of the plan. Stephanie Schleif (Ecology) asked about the schedule for performing slab removal. Glenn Konzek (DOE-RL) responded that the schedule has not been finalized but that the slab removal schedule will be impacted by the recent one year extension to the slab on grade milestone, M-083-00A.

Administrative Topics

Minutes from the May 26, 2016 meeting were approved and will be placed in the Administrative Record.

Action Status

Action	Actionee	Status
Track progress in development of a Sampling and Analysis Plan (SAP) for removal of the 236-Z and 242-Z building slabs 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	Draft A will be formally issued for review by regulatory agencies. A briefing was provided at the July 14, 2016, PMM, and copies of the SAP were provided to those in attendance. The Parties agreed to close this action but to open a new action to provide status on the comment resolution process until Revision 0 is approved.
Share results on the J Pan waste analysis.	RL	All laboratory analysis is complete and expert opinion has been obtained. A report to compile all of the information and conclusions is being finalized. The conclusions indicate that the drums can be torqued and sent to Central Waste Complex. One unresolved issue is whether proposed changes to WIPP waste acceptance criteria will impact disposal at WIPP.
Share asbestos thorough inspection results when completed.	RL	Asbestos characterization of 234-5Z is expected to take another couple of months. Characterization of 291Z will follow. The inspection reports will then be issued.
Provide an updated copy of the deterministic field execution schedule.	RL	The schedule was provided to Ecology via email from Glenn Konzek on June 2, 2016. This action is closed. Monthly updates to the field execution schedule will continue to be provided at the PMM.

PFP Milestone Status (RL/CHPRC).

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

  Regulatory agency comments to the S&M plan were resolved and Revision 0 was formally submitted to Ecology via letter 16-AMRP-0199 dated June 14, 2016. Ecology approved the S&M plan and concurred that the milestone target date was complete (see letter 16-NWP-110, dated June 20, 2016). The approved S&M plan (DOE/RL-2011-59) has been placed in the Administrative Record.

- 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.* 9/30/2017 (On Schedule)

  TPA change control form M-83-16-01 to extend the milestone completion date for one year was approved by RL, Ecology and EPA on July 11, 2016. Glenn Konzek (RL) expressed appreciation to Stephanie Schleif (Ecology) and Emy Laija, (EPA) for the timely input and cooperation in resolving issues and getting the change notice signed.

Project Progress, Issues, Concerns, and Challenges (Glenn Konzek, RL; Tom Bratvold, CHPRC)

General.

- The Readiness Assessment for demolition of 236Z will begin on August 8, 2016, and is expected to take about two weeks. Building 2727Z will be demolished during the assessment to demonstrate the readiness of personnel, processes, and equipment. Demolition of Building 2729Z is expected to begin next week. A criticality incredible determination for 242Z and 236Z is expected by August 4, 2016.
- The last activity scheduled to use Level B personal protective equipment (PPE) is expected to be completed this week. Activities such as removal of contaminated equipment, decontamination efforts, and application of fixatives should reduce radiological contamination hazards to workers to levels that will allow workers to use Powered Air Purifying Respirators (PAPRs).
- A power outage in the 200 area resulted in a brief shutdown of the PFP ventilation system. The outage caused building ventilation zones to go to atmospheric pressure for a few minutes. There was no spread of contamination but it took most of the day to confirm safe conditions to resume work activities using standard restart procedures.
- Revision 3 of the Air Dispersion Model is expected to be issued no later than August 4, 2016. Ms. Schleif asked to be informed when it is available and to confirm that the Washington State Department of Health comments have been incorporated.

236Z. Nondestructive Assay (NDA) of the canyon walls has been completed and calculations are being performed to determine if nuclear safeguards can be terminated. Scabbling to determine the depth of radioactive material penetration into the walls will be performed followed by application of fixatives in preparation for demolition. Plans are underway to remove the column and miscellaneous treatment (MT) gloveboxes prior to demolition. The removal will be through the 6th floor roof via a crane. This approach will require openings to be cut for removal of the gloveboxes. This method will reduce risks and avoid the need to build a ramp for the demolition equipment. Work is also proceeding on isolation of the filter boxes and removal of E-4 ventilation ducts that cannot be demolished with the building.

242Z. A false criticality alarm sounded at PFP on June 16, 2016. The alarm was determined to be a malfunction of a relay switch in a criticality alarm panel, but workers responded properly as if it was real. Workers in 242Z that were in level B suits immediately evacuated and went to the staging area. Their exit unfortunately resulted in contamination spread along the exit path. The contamination was stabilized, portions disposed of, and residual contamination covered with gravel. The affected area was posted as an underground radioactive material area. The incident and associated follow-on activities resulted in a three week schedule slip for 242Z.

234-5Z. Interior walls are being removed in the Plutonium Processing Support Laboratory (PPSL) to facilitate asbestos removal. Work continues on the 26 inch vacuum line and the E-4 ventilation duct which is on critical path. The hood in room 166 was removed and sent to ERDF last week. Two horizontal pencil tanks within room 166 will need to be sized reduced for packaging. A mock-up has been completed and cutting is expected to begin next week. Due to two contamination spread incidents during cutting of the 26 inch vacuum line in the duct level, the standard use of 5-sided containment ventilation has been replaced by use of a fully enclosed glove bag, unless senior PFP management approves an exception.

Ecology Topics (Stephanie Schleif, Ecology).

Ms. Schleif (Ecology) asked whether there have been additional problems with pinhole leaks in the level B suits. Mr. Bratvold responded that there had been a breached glove caused by a fine gauge wire (outer layer of suit and two levels of rubber gloves were breached, but no skin puncture). It was noted that the HAB River and Plateau committee have asked that PFP be on the agenda for the August 9th meeting. The new Ecology Nuclear Program Manager, Alex Smith, has requested a tour of PFP. Ecology would also like to see changes to documents affected by the milestone extension tracked to closure.

Meeting Summary

- There were no approved changes signed off in accordance with section 12.2 of the TPA action plan.
- New Actions:
    1. Provide copy of the SAP presentation to Ecology and attach it to the meeting minutes.
    2. Track progress in resolving comments on Draft A of the SAP for slab removal.
    3. Confirm that WDOH comments are addressed in Revision 3 of the Air Dispersion Model and inform Ecology when it is available.
    4. Invite EPA and Ecology to observe portions of the Readiness Assessment and provide them with additional information on assessment activities and schedules.
    5. Arrange for a visit to PFP by Alex Smith.
    6. Track changes needed for documents impacted by the M-083-00A milestone date extension.

Next Meeting Date and Location

- The next PMM is scheduled for August 25, 2016, at 3:30 p.m. in the Federal Building.

HNF-60125 -VA
Draft A

Sampling and Analysis Plan for Slab Removal Draft A Overview

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788

P.O. Box 1600
Richland, Washington 99352

Sampling and Analysis Plan for Slab Removal Draft A Overview

B. J. Dixon
CH2M HILL Plateau Remediation Company

Date Published
July 2016

To be Presented at
N/A

DOE-RL
Richland, WA

07/14/2016

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788

P.O. Box 1600
Richland, Washington 99352

APPROVED
By Janis Aardal at 12:58 pm, Jul 28, 2016

Release Approval

Date

PFP Closure Project
Sampling and Analysis Plan for Slab Removal
Draft A Overview

July 2016

ch2m

U.S. DEPARTMENT OF ENERGY

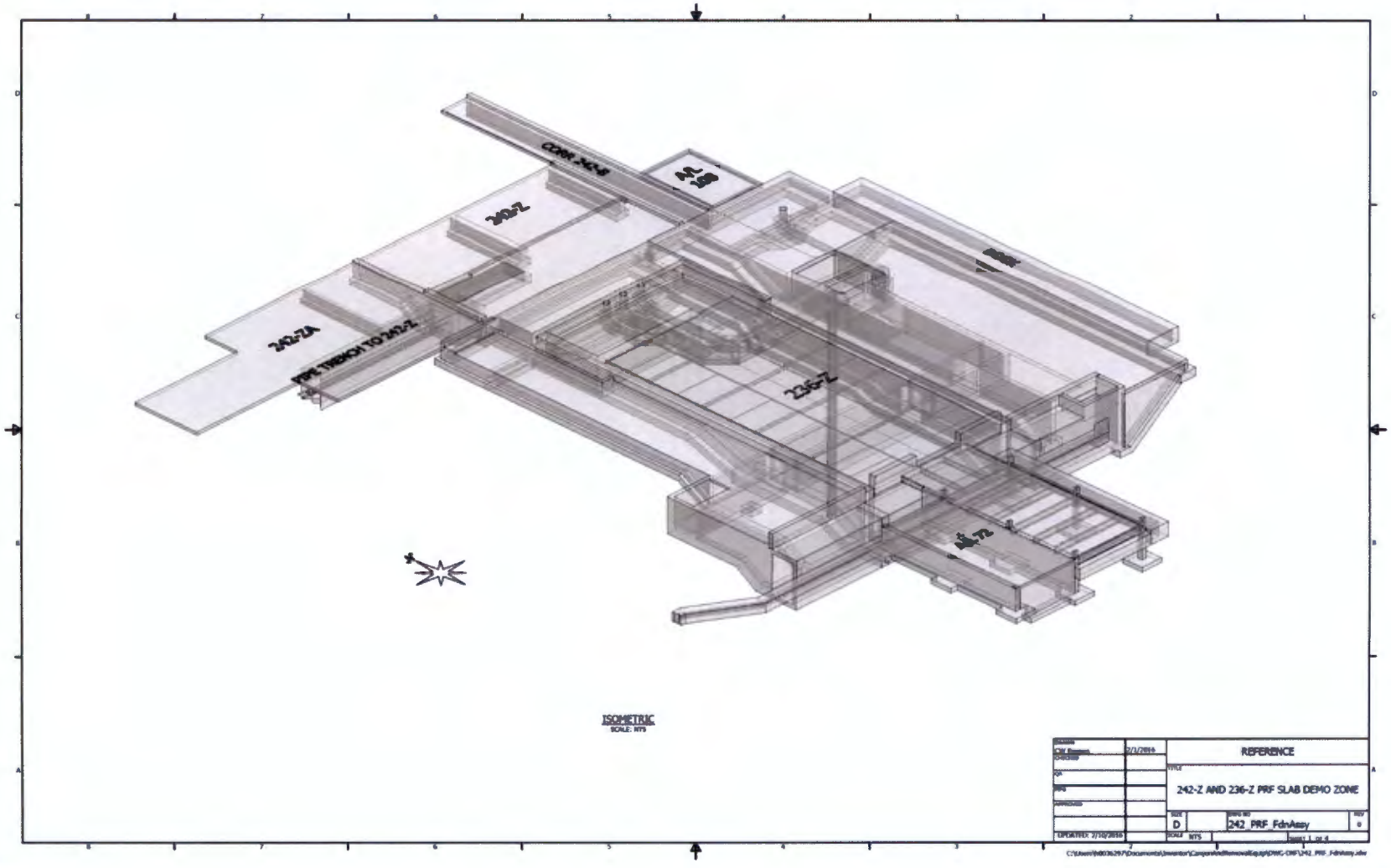
Background and Purpose

- RAWP: "Characterization for the safe management and disposal of the slabs and soil …will be addressed in a DQO/SAP to provide additional information on potential soil contamination under those slabs and to provide information in the waste site discovery process."
- Slab removal scope is not included in the SAP for above grade structures so it was decided to create a stand-alone SAP for removal of the 236-Z and 242-Z slabs.
- There are 3 information needs:
  - Identify controls necessary to protect workers during slab removal
  - Characterize waste
  - Document post-slab removal conditions in WIDS
- Information gathered prior to and during demolition of the above grade structures will be used to the extent possible.

Approach

- Provide sufficient flexibility in the SAP to allow the needed information to be gathered through a variety of approaches.
- Proceed with demolition in a manner that will allow us to adjust and respond as we gather information.
- Use existing NDA and sampling data on canyon floor pans to determine waste disposition. Portions of the floor with high gram levels will be managed as TRU and possibly TRUM.
- Removal of the slab in 236-Z is likely to open the crossover duct but main exhaust duct is not under the slab and could be left intact.
- Radiological surveys and process knowledge about where leaks are most likely will be used to guide the identification of the location and extent of any contamination under the slab before it poses a worker risk.

Isometric Drawing of 236-Z and 242-Z Slabs



SAP Section 1 (Introduction)

Background, DQO Summary, Contaminants of Concern, Schedule

- Scope – removal of 236Z and 242Z slabs and associated soil to reduce hazards during S&M
- Objective – Obtain information to safely remove slabs, compliantly manage waste, and prepare for follow-on remedial action
- Contaminants of Concern – Primarily radionuclides (Pu, Am, U). Other COCs - Metals, Nitrates/Nitrites,Beryllium;

Section 2 (Quality Assurance Project Plan)

- Data collection requirements and controls based on QA from:
  - 10 CFR 830 (Nuclear Safety Management)
  - DOE O 414/1D (DOE QA requirements) and HASQARD
  - EPA QA/R-5 (EPA Requirements for QA Project Plans)
- QAPjP is divided into four sections
  - Project Management
  - Data Generation and Acquisition
  - Assessment and Oversight
  - Data Validation and Usability

Section 3 - Field Sampling Plan

- This section defines project sampling and analytical requirements to support the slab removal data needs for worker protection during removal, proper management of wastes, and document as left conditions).
- A combination of focused and grid sampling will be used.
  - Radiological hot spots and soil staining will guide focused sampling.
- Radiological survey of remaining soil footprint will be performed after slab removal.
- Logbooks will be used to document field activities and protocols are established for packaging, labeling, custody, etc.

Next Steps and Implementation Strategy

- Formally transmit Draft A for 45 day review and comment period.
- Resolve comments.
- Complete independent government technical and cost analysis of CHPRC proposal for slab removal.
- Provide contract modification for implementation of sampling and characterization.
- Provide contract direction for slab removal scope – TBD.

- Questions??

PFP Project Managers Meeting
825 Jadwin/641

July 14, 2016
ATTENDANCE LIST

	Name	Organization	Phone Number
1.	Brian Dixon	CHPRC	376-7053
2.	Glenn R. Konzek	DOE-RL	376-8399
3.	Jane V Borghese	CHPRC	373-3804
4.	Emy Laija	EPA	376-4919
5.	Tom Bratvold	CHPRC	373-2360
6.	Jack George	DOE-RL	3-1233
7.	John Sulka	DOE-RL	373.9876
8.	Ben Vannah	DOE-RL	376-9623
9.	Allison Wright	DOE/RL	373-7303
10.	EDWARD SOTO	ECY/NWP	
11.	JERRY YOKER	ECY	372-7937
12.	Stephanie Schlef	Ecology	372-7929
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