

## DEFENSE NUCLEAR FACILITIES SAFETY BOARD

November 10, 2016

**TO:** S. A. Stokes, Technical Director  
**FROM:** P. Fox and D. Gutowski Hanford Site Representatives  
**SUBJECT:** Hanford Activity Report for the Week Ending November 11, 2016

**Plutonium Finishing Plant (PFP).** After completing external structure removal, the PFP demolition team started removal of the Plutonium Reclamation Facility penthouse. When this portion of the facility is complete, they will pause and perform a formal post job review. Additionally, they will perform a mockup activity for the procedure they will use for packaging transuranic waste that will be removed from the lower floors of the facility during demolition. Lessons learned obtained from the post job review and the mockup will be used to modify the work procedure and support infrastructure to improve safety and efficiency during demolition.

The PFP Plant Review Committee approved implementation of revision 14 of the PFP DSA and TSRs. Revision 14 clarifies the applicability of TSRs related to material management, chemical management, and flammable gas venting controls during pre-demolition and demolition.

**Tank Farms.** Contractor senior management authorized pit work in AX and C farms per the new standing order (see Activity Report 11/4/2016). The contractor's event investigation report for the contamination spread in AX farm has been issued and notes weaknesses in fixative use, anti-contamination hood usage, and communications with the central shift office.

The operational readiness checklist for the second stage of retrieval from tank AY-102 has been completed. Resumption of retrieval is contingent upon one pre-start action: resolution of the Motion for Preliminary Injunction related to vapors.

**Waste Treatment Plant.** ORP initiated a review of the contractor's High Level Waste (HLW) Facility Completion Plan to support resumption of procurement and construction of HLW (see Activity Report 8/22/2014). Items that remain before authorization include: addressing historical design review comments, ORP approval of a PDSA that incorporates the control strategy defined in the Safety Design Strategy, and ORP approval of the Facility Completion Plan.

ORP concurred with the contractors proposed revision to a condition of approval from the Safety Evaluation Report for the Direct Feed Low Activity Waste and Effluent Management Facility PDSA (see Activity Report 3/25/2016). ORP is now allowing the contractor to proceed with procurement of the fabrication of the evaporator vessel prior to approval of the PDSA change package. However, instrumentation and control systems associated with the evaporator, are not authorized to be procured with the vessel.

**Low Activity Waste Pretreatment System.** The contractor's Safety in Design Integration Team evaluated the results of Failure Modes and Effects Analyses that addressed scenarios where high or low temperatures could impact safety-significant piping.

**Waste Encapsulation and Storage Facility.** Contractor management initiated a stop work for construction activities related to hot cell stabilization when they determined that the grout conveyance system installation may not conform to work package instructions.