

## DEFENSE NUCLEAR FACILITIES SAFETY BOARD

January 20, 2017

**TO:** S. A. Stokes, Technical Director  
**FROM:** P. Fox and D. Gutowski Hanford Site Representatives  
**SUBJECT:** Hanford Activity Report for the Week Ending January 20, 2017

**RL Safety Basis Reviews.** In October, the Central Plateau contractor submitted the “105 KW Facility Documented Safety Analysis” and “105KW Facility Technical Safety Requirements” for RL review. RL has completed their review and rejected the documents because they do not meet the requirements of 10 CFR 830, Subpart B. In 2016, RL also rejected two submittals of the Solid Waste Operations Complex Safety Basis by the same contractor for the similar reasons. RL has directed the contractor to provide a corrective action plan to address the causes of the non-compliant submittals.

**Waste Treatment Plant.** ORP and the contractor held a workshop to ensure that both parties are in full agreement on the issues associated with full review and approval of the Low Activity Waste (LAW) Facility PDSA (see Activity Report 1/6/2017). They reached agreement on an approach to produce a compliant LAW PDSA and DSA consistent with key project milestones. A joint working team will be established to refine and implement the approach agreed to at this workshop.

**Plutonium Finishing Plant (PFP).** There were two unplanned LCO entries at PFP this week. In the first case, workers adjusting a scaffold to support D&D activities in a congested area of the duct level of 234-5Z broke a safety-significant fire water branch line. The field work supervisor notification to the shift office of the pipe break occurred at the same time as the associated fire alarm. Workers stopped D&D activities and evacuated the facility, and the facility was entered into the appropriate LCO for an inoperable fire main riser. Contractor estimates of the amount of water released into the facility range between a few hundred and two thousand gallons. The contractor has completed required electrical safety checks and contamination surveys. The facility was determined to be safe and no contamination spreads resulted from the event. The contractor is working to repair the damaged fire main and determine the cause of the event. In the second case, a surveillance operator discovered a criticality alarm panel module in an “alert” condition. Per procedure, the module was placed in “inhibit” and the facility entered the appropriate LCO for an inoperable criticality alarm panel. The contractor is performing troubleshooting activities to identify the cause of the module failure.

**Site Wide.** Winter weather again curtailed or canceled non-essential work onsite Tuesday, Wednesday, and Thursday this week (see Activity Report 01/13/17).