

## DEFENSE NUCLEAR FACILITIES SAFETY BOARD

June 8, 2018

**TO:** S. A. Stokes, Technical Director  
**FROM:** P. Foster and P. Fox, Hanford Resident Inspectors  
**SUBJECT:** Hanford Activity Report for the Week Ending June 8, 2018

**DNFSB Staff Activity.** D. Brown was onsite performing resident inspector support activities.

**KW Basin.** The Assistant Secretary for Environmental Management (EM-1) approved DOE-RL's request for Critical Decision (CD) 4, *Approve Start of Operations*, for the KW Basin Sludge Removal Project. DOE-RL's request states that this capital asset project was completed below cost and ahead of schedule when compared to the CD-2 baseline. Also, based on EM-1's previous approval (see 5/25/2018 report), the contractor prepared the first sludge transport and storage container (STSC) to receive sludge. They intend to start transferring sludge from the in-basin engineered containers to the STSC next week.

**Hanford Site:** A range fire, which was most likely ignited by lightning, burned approximately 2800 acres of the Hanford Site in the 600 area between the base of the 200 area plateau and the Wye Barricade. The fire did not damage any infrastructure or impact any waste sites.

**Plutonium Finishing Plant (PFP).** The contractor modified work and radiological control boundaries around PFP. The new boundaries result in a smaller work control area which improves access to some areas located near PFP. At the same time, they have significantly expanded the Radiological Buffer Area which is located within the work control boundary. This action will result in additional access restrictions and radiological monitoring in the area surrounding the demolition site where there is a potential for contamination spread.

**Waste Treatment Plant.** The contractor notified DOE-ORP that they consider the *LBL Physical Plant Complete* milestone achieved. Under the contract, this milestone is achieved when the Low Activity Waste (LAW) Facility is constructed and major mechanical and electrical systems have been installed. Laboratory and Balance of Facility facilities, which support the direct feed LAW operations must also be constructed. In order to prevent rework, the milestone excludes items subject to obsolescence and maintenance, installation of components deferred to protect government property, and other intentionally excluded items necessary to facilitate startup activities. The exclusions include a number of safety systems and components.

**Hanford Advisory Board (HAB).** The HAB held their quarterly meeting. The objectives of the meeting included review of the HAB's 2019 work plan, and consideration of advice regarding DOE's Fiscal Year 2020 budget priorities for Hanford and remediation of the 100-B/C area. DOE-RL and DOE-ORP provided updates during the meeting.

**T-Plant.** The contractor held an emergency preparedness full up drill to evaluate the performance of the members of the Facility Emergency Response Organization. The scenario postulated a fork-lift driver suffering a heart attack resulting in the breach of a number of waste containers. The drill was effective although the DOE Facility Representative and drill team members noted a number of simulation weaknesses.