

DEFENSE NUCLEAR FACILITIES SAFETY BOARD

December 19, 2014

TO: S. A. Stokes, Technical Director
FROM: P. Fox, D. Gutowski and R. Quirk, Hanford Site Representatives
SUBJECT: Hanford Activity Report for the Week Ending December 19, 2014

Board Staff member B. Boser was onsite to observe DOE's Independent Project Review for the Low Activity Waste Pretreatment System.

Waste Treatment Plant (WTP). The contractor held a kickoff meeting to initiate efforts on developing a Safety Design Strategy for the Pretreatment Facility.

ORP informed the contractor that they intend to add DOE Order 420.1C, *Facility Safety*, to the contract requirements for facility operations, but not for engineering, procurement, and construction.

One System. The One System Nuclear Safety Steering Committee met again to finalize safety analysis methodologies for use by both Tank Farms and WTP contractors (see Activity Report 9/26/2014). The committee used the new evaluation process developed since their last meeting and voted to approve the Chemical Analysis methodology. They also received reaffirmation from the WTP contractor for three recommendations approved under previous managers. These recommendations were related to non-TSR defense in depth features, classification of support and interface SSCs, and adequacy of preventive controls.

Plutonium Finishing Plant. The contractor continued efforts to repair the Plutonium Reclamation Facility bridge crane. They intend to replace the main drive motor and gear box assembly to restore the crane to operation (see Activity Report 12/12/2014).

242-A Evaporator. The contractor held a control decision meeting to refine options for planned improvements in the DSA. These improvements are to protect safety systems from fires and to automatically initiate a seismic dump in the evaporator (see Activity Report 5/16/2014). The contractor chose to continue evaluating both mechanical and safety instrumented system options until enough data is available to make a final selection.

Tank Farms. The contractor successfully transferred 600,000 gallons of waste from tank AP-104 to tank AW-102 in preparation for the next evaporator campaign.

REDOX Plant. The site rep observed the contractor making the final required annual surveillance entry into the facility (see activity report 12/12/2014). There were shallow puddles on the floor of the pipe and operating galleries that were similar to puddles noted in other areas. The work supervisor reported that significant water intrusion appears to occur when there are wind-driven rains, and identified dry "beach lines" where the puddles had been significantly larger. A report documenting the results of the surveillance is being developed.

DOE Headquarters Oversight. EA-32 completed the field observation portion of their review of work planning and control by the Central Plateau contractor and oversight by RL.

Richland Operations Office. S. Charboneau began her assignment as Site Office Manager.