

## DEFENSE NUCLEAR FACILITIES SAFETY BOARD

July 15, 2005

**TO:** K. Fortenberry, Technical Director  
**FROM:** D. Grover, W. Linzau, and R. Quirk, Hanford Site Representatives  
**SUBJ:** Activity Report for the Week Ending July 15, 2005

Mr. Quirk was out of the office Wednesday through Friday.

K Basin Closure Project (KBC): The project initiated the new K-East (KE) sludge retrieval strategy. The new strategy is to remove all debris from a quadrant of a bay and then vacuum that area until the concrete floor is reached. A significant amount of sludge is expected to resettle in these areas as other areas are vacuumed and debris is pressure washed to remove sludge. The project is also increasing the quantity of debris to be removed from the basin to minimize the interference it is causing in the basin.

The project has completed the installation of six sludge consolidation containers in the K-West (KW) Basin. Five of these are the receipt containers for KE sludge. The sixth will be for retrieval of sludge from the KW Basin floor. The delivery of equipment to conduct KW vacuuming and KE transfers continues to be delayed while fabrication documentation packages are modified to meet quality assurance requirements.

In addition, the design of the Hose-In-Hose Transfer Line equipment continues to be modified. This week's planned hazards analysis meetings on design changes were placed on hold until further design issues are resolved. Fluor Hanford is evaluating bringing in Fluor Corporate resources to review the design.

Waste Treatment Plant (WTP): The Site Rep attended the quarterly inspection exit meeting where the WTP Facility Representatives discuss with Bechtel National, Inc. (BNI) the results of inspections from last quarter. Of the seven concerns discussed during the meeting, two were problems with structural welding. The first concern was the use of the incorrect weld inspection standard for structural members subject to cyclic loads. The second concern was noted in Hanford weekly from June 24, 2005 and dealt with welding packages that were found with the wrong revision of drawings. BNI discussed the corrective actions for both problems but neither plan included a discussion of re-inspection of the welds in question.

Site Reps attended the WTP Site Access Training and found the principals of Integrated Safety Manage were clearly defined and promoted during the training.

Demonstration Bulk Vitrification System (DBVS): The Site Rep participated in the staff's on-site review of the DBVS. The review included discussions of the confinement strategy and the seismic design of the facility. The staff noted comments on the seismic design which require follow-up reviews after the design is complete in December 2005.

Cc: Board Members