

DEFENSE NUCLEAR FACILITIES SAFETY BOARD

June 25, 2004

MEMORANDUM FOR: J. Kent Fortenberry, Technical Director
J. J. McConnell, Deputy Technical Director
FROM: R. T. Davis/ T. D. Burns
SUBJECT: SRS Report for Week Ending June 25, 2004

H-Canyon Ventilation: In a June 2002 letter to DOE (EM-1), the Board noted that degradation of the exhaust duct from the Old HB-Line ventilation system could allow an unfiltered ground level release during a canyon accident. The Board letter stated that timely resolution of this issue would be appropriate given the ongoing and long-term missions at H-Canyon. In March 2004, WSRC completed conceptual design for a project that will divert the Old HB-Line ventilation to the canyon exhaust tunnel and isolate the degraded duct. New fans and filters will be installed on the third level of H-Canyon to support Old HB-Line ventilation. This modification would eliminate the potential for an unfiltered ground level release.

As noted previously (site rep weekly 3/19/04), WSRC is performing the detail design for this project. WSRC is approximately 50% complete and is scheduled to complete the detail design in September 2004. The current schedule shows construction beginning in December 2004 and project completion in early 2006. However, funding constraints in Fiscal Year 2005 may impact construction activities and completion of this project. DOE-SR and WSRC are working to resolve this issue.

H-Area: This week, WSRC identified a management concern based on missing quality assurance records associated with construction activities in H-Area. In April 2004, WSRC performed an assessment of construction work packages from across the site. During this review, several H-Area work packages on safety and non-safety systems were identified with missing quality control inspection reports. Initial field evaluation of these systems indicates that it is likely the work was performed correctly and that the records are just missing. WSRC is now reviewing all H-Area construction work packages. In addition, WSRC is evaluating the potential impact on the functionality of the safety systems affected.

K-Area Material Storage (KAMS): To support plutonium storage at SRS, WSRC is in the process of revising the KAMS Documented Safety Analysis (DSA). The DSA revision will include the following:

- Increase storage capacity from 4000 to 5000 9975/3013 packages
- Support facility mission beyond 10 years
- Additional analysis of facility fire scenarios with no exhaust flow
- Seismic evaluation using the 1.2 load factor
- Incorporate a revised Fire Hazard Analysis (FHA)

The revision is scheduled to be submitted to DOE-SR on July 30, 2004. The updated FHA should be available in the next few weeks.