

DEFENSE NUCLEAR FACILITIES SAFETY BOARD

TO: Timothy Dwyer, Technical Director
FROM: Wayne Andrews and David Kupferer, Site Representatives
SUBJECT: Oak Ridge Activity Report for Week Ending November 26, 2010

Storage Operations/Recommendation 2004-2. On Monday, the Board's staff and site representatives participated in a teleconference with B&W and YSO personnel to discuss B&W's plans to consolidate nuclear material into Building 9720-5 (previously referred to as the Warehouse, see the 10/29/10 report). Because of its determination that Building 9720-5 is better suited for nuclear material storage than other alternatives, B&W plans to relocate radiological materials from Buildings 9720-12 and 9720-18 to Building 9720-5. Although B&W expects that the future quantity of enriched uranium (i.e., U-235) stored in Building 9720-5 will be significantly less than was stored in the facility prior to the startup of the Highly Enriched Uranium Materials Facility (see the 3/19/10 and 4/9/10 reports), because of criticality safety concerns, B&W is planning to operate and maintain Building 9720-5 as a Hazard Category-2 nuclear material storage facility.

In 2005, NNSA Headquarters informed that Board that Building 9720-5 would be excluded from the scope of DOE's Implementation Plan for Recommendation 2004-2, *Active Confinement Systems*, on the basis that Building 9720-5 was being replaced by the Highly Enriched Uranium Materials Facility (see the 7/31/09 report). Because B&W now plans to continue operating Building 9720-5 as a Hazard Category-2 nuclear facility, B&W is conducting an evaluation of the facility's confinement ventilation system in accordance with the Implementation Plan.

Uranium Processing Facility (UPF). Several months ago, B&W issued a Commissioning Management Plan for UPF. This plan defines the commissioning process as a comprehensive and well coordinated program that identifies those tasks required to ensure that structures, systems, and components are designed, installed, tested, operated, and maintained in conformity with applicable requirements such that operations can be performed safely and reliably in UPF. B&W's plan includes detailed tasks related to the following: configuration management, testing, staffing, training and qualification, procedure development, emergency planning, maintenance, safety basis development and implementation, readiness confirmation, and initial operations. The plan highlights that commissioning UPF will require a great deal of communication and cooperation among the various functional elements of the project team. Similar to the readiness confirmation process that B&W utilized during the startup of the Highly Enriched Uranium Materials Facility, the plan states that B&W will utilize a Readiness Certification Assurance process in lieu of traditional Performance Self Assessment reviews (see the 1/8/10 report). B&W expects to periodically update its Commissioning Management Plan.