

DEFENSE NUCLEAR FACILITIES SAFETY BOARD

February 22, 2019

TO: Christopher J. Roscetti, Technical Director
FROM: Matthew Duncan and Brandon Weathers, Resident Inspectors
SUBJECT: Oak Ridge Activity Report for Week Ending February 22, 2019

DNFSB Staff Activity: A staff review team conducted a teleconference with DOE Oak Ridge Office of Environmental Management and Isotek Systems personnel to discuss the results of the staff's review of the Building 2026 Initial Processing Campaign Preliminary Documented Safety Analysis (see 9/21/18 and 12/7/18 reports).

NNSA: The NNSA Chief of Defense Nuclear Safety issued its final report of the NPO 2018 Biennial Review earlier this month. The report concluded that NPO meets the objectives established in the NNSA Supplemental Directive 226.1-1A, *Headquarters Biennial Review of Nuclear Safety Performance* for the ten functional areas that were reviewed. The report identified seven Findings (four apply to NNSA Headquarters rather than NPO), seven Weaknesses, 31 Opportunities for Improvement, and four Noteworthy Practices.

Y-12 Conduct of Operations: There have been several events related to conduct of operations errors. CNS is planning a series of production pauses to discuss conduct of operations with the workforce next week. The following list summarizes some of the recent events:

- **1/2/19:** An item was loaded into equipment and later that equipment was started without communicating the equipment operating status to the Shift Manager.
- **1/4/19:** A fan damper was discovered to be closed while the fan had been left running.
- **1/10/19:** Ammonium hydroxide was delivered to an area of Building 9212 in violation of a specific administrative control (see 1/18/19 report). A similar event occurred in October 2018 (see 11/9/18 report).
- **1/10/19:** A parked Skyjack™ lift was discovered in an area not approved by the facility Fire Hazards Analysis document.
- **1/28/19:** Equipment in the environmental room of Building 9204-2E was not in the ON condition during operations, as required.
- **2/6/19:** An overlooked procedure step resulted in an unexpected hazardous material release.
- **2/6/19:** Disallowed movement and improper storage location of a drum that failed a gamma-scan (see 2/15/19 report).
- **2/11/19:** Steam was isolated to Building 9720-5 without obtaining work start approval of the Shift Manager.
- **2/13/19:** Operators drained an evaporator that was under an operations hold due to criticality safety concerns without obtaining work start approval of the Shift Manager.
- **2/14/19:** Sample bottles were loaded with fissile material above the sample bottle mass loading limits established in a site material handling procedure. The workers who performed the sampling activity were not fissile material handlers.