

DEFENSE NUCLEAR FACILITIES SAFETY BOARD

October 5, 2018

TO: Christopher J. Roscetti, Technical Director

FROM: Daniel B. Bullen, Ph.D., P.E., Cognizant Engineer

SUBJECT: Lawrence Livermore National Laboratory (LLNL) Report for September 2018

Defense Nuclear Facilities Safety Board (Board) Staff Activity: The Board's staff provided one person-week of on-site safety oversight at LLNL during September 2018. On September 19–20, 2018, the Board's Acting Chairman and the Board's cognizant engineer for LLNL were on site to conduct walk downs of the plutonium building and the transuranic waste (TRU) storage facilities. The Acting Chairman also met with Livermore Field Office (LFO) managers and LLNL directors and managers.

Building 332 - Transition to New Motor Control Centers (MCC): On September 24, 2018, LLNL staff completed the final phase of the transition to the new MCC in Increment 3 of Building 332 (see LLNL Monthly Report for July 2018). The new MCC removes a single-point failure vulnerability in the Emergency Power System (EPS) by transferring equipment loads from one MCC in Increment 3 to two new MCCs. LLNL completed this upgrade to respond to prior Board correspondence issued in 1999 and 2002 addressing the operability of vital safety systems in Building 332.

Start-Up Notification Report: On September 24, 2018, LFO approved the fourth quarter fiscal year 2018 LLNL Startup/Restart Notification report that LLNL submitted on August 20, 2018. This submittal is required by Department of Energy Order 425.1D, *Verification of Readiness to Start Up or Restart Nuclear Facilities*. The startup notification report included activities in the following facilities/systems.

- Building 332 Recovery Glovebox Line (Hazard Category 2) – The current status of this activity is pre-decisional with a projected startup date to be determined (TBD).
- Building 332 Hydrogen Gas System (Hazard Category 2) – The current status of this activity is pre-decisional with a projected startup date TBD.
- Transuranic (TRU) Waste Characterization (Hazard Category 2) – The projected startup date is May 20, 2019.

LFO approved the TRU waste characterization activity and took no action on the pre-decisional activities. The TRU waste characterization activity has a proposed contractor readiness assessment in December 2018 and a proposed Federal readiness assessment in March 2019.

Building 239 - Radiography Facility Documented Safety Analyses (DSA) and Technical Safety Requirements (TSR): On September 27, 2018, LFO approved revised page changes to the Building 239 DSA and TSR documents to correct a minor typographical error.