

## DEFENSE NUCLEAR FACILITIES SAFETY BOARD

March 5, 2021

**TO:** Christopher J. Roscetti, Technical Director  
**FROM:** Daniel B. Bullen, Ph.D., P.E., Cognizant Engineer  
**SUBJECT:** Lawrence Livermore National Laboratory (LLNL) Report for February 2021

**LLNL Operating Status in Response to COVID-19:** On February 5, 2021, the California Department of Public Health ended their Hospital Surge Public Health Order based on data showing declining cases, hospitalizations, test positivity and transmission rates. California is still operating under its *Blueprint for a Safer Economy* in which counties within specific regions returned to their appropriate color-coded tier and implemented rules based on local COVID conditions. LLNL remains in Phase 2 of their “Phased Recovery and Re-entry Plan” with a majority of the workforce teleworking.

**Transportation Safety Document (TSD) and Technical Safety Requirements (TSR) Annual Update:** On February 2, 2021, the Livermore Field Office (LFO) approved the 2020 Annual Update to the TSD and TSR. The TSD documents the safety analyses for activities related to the onsite transfer of nuclear materials at the LLNL main site. LFO noted no technical changes or changes to the safety controls in the TSD. In addition, LFO noted that no events identified in the TSD have an unmitigated consequence that could challenge the evaluation guideline. In their correspondence, LFO required Lawrence Livermore National Security, LLC (LLNS) to immediately add the LFO Safety Evaluation Report and the TSD to the Packaging and Transportation Safety safety basis document. LFO also required LLNS to implement the TSD within 90 calendar days.

**Hardened Engineering Test Building (Building 334) – Documented Safety Analysis (DSA) and TSR Review Comment Record (RCR):** On February 19, 2021, LFO provided their RCR on the 2020 Annual Update to the Hardened Engineering Test Building DSA and TSR. LFO’s comments requested editorial changes and clarification on risk evaluations included in the 2020 Annual Update. LFO requested that LLNS resubmit any revised DSA and TSR page changes incorporating resolutions to the RCR comments within 45 calendar days.

**Radiography Facility (Building 239) – Safety Basis Annual Update:** On February 25, 2021, LLNS submitted the 2021 Annual Update to the DSA and TSR for Building 239. The DSA documented the bounding doses resulting from postulated accidents as well below the evaluation guideline at the site boundary with negligible risk to the public associated with facility operations. The Radiography Facility Safety Basis Annual Update also includes evaluation of Unreviewed Safety Question Determinations from January 11, 2019, through September 1, 2020.

**Second Quarter Fiscal Year 2021 Startup Notification Report (SNR):** On February 25, 2021, LFO provided their response to the Second Quarter Fiscal Year 2021 SNR submitted by LLNS on January 21, 2021. LFO approved the startup activity for the Recovery Glovebox Line as outlined in the SNR but took no action on the pre-decisional Building 332 Hydrogen Gas System startup activity. LFO is currently evaluating whether the restart of the Centralized Waste Processing Line in the Plutonium Facility warrants a readiness review.