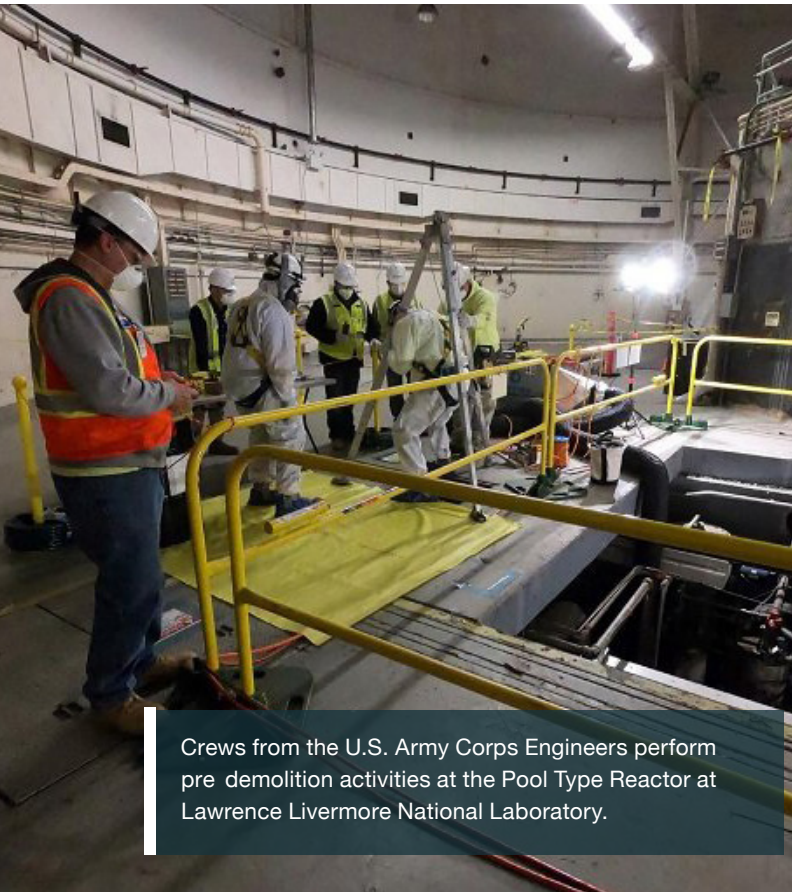
Lawrence Livermore National Laboratory

Overview

Located in California, the Lawrence Livermore National Laboratory (LLNL) was established in 1952 as a multidisciplinary R&D center focusing on weapons development and stewardship and homeland security. At the LLNL main site, EM has been tasked by Congress to demolish several excess facilities. LLNL Site 300 is a remote experimental testing facility where the Department conducts research, development, and testing of high explosives and integrated non-nuclear weapons components. EM is responsible for addressing the remaining groundwater contamination issues at Buildings 812, 850 and 865 at Site 300.

Calendar Year 2023 Accomplishments

- **Commenced abatement and hazard removal activities at Building 251, a high-risk excess facility — an EM 2023 priority**
- **Initiated the Building 280 demolition project**
- **Commenced the LS412 slab and soil removal project**



Crews from the U.S. Army Corps Engineers perform pre demolition activities at the Pool Type Reactor at Lawrence Livermore National Laboratory.

Planned Cleanup Scope 2024–2034

At Site 300, EM will address the remaining legacy cleanup scope by moving forward with selecting and implementing remedial actions for Building 812, Building 865, and Building 850 groundwater. An amended Record of Decision (ROD) documenting the selected treatment path forward is expected to be issued in 2028. Implementation of the selected path forward is anticipated to be initiated in 2031, and responsibility for the completed actions are anticipated to be transferred to the National Nuclear Security Administration (NNSA) in 2033.

Over the next decade, based on NNSA mission needs, EM anticipates continuing to perform demolition work on remaining higher risk excess facilities. These facilities include Building 251 (Heavy Elements Facility), Building 292 (Rotating Target Neutron Source), Building 241 (Pluto Project Testing and Fabrication Facility), Building 343 (Explosives and High-Pressure Testing Facility), LS212/Building 212 (Accelerator Facility), and other process-contaminated facilities.

Key Regulatory Milestones 2024–2034

The key regulatory milestones listed below for soil and water remediation are required by the Lawrence Livermore National Laboratory Site 300 Federal Facility Agreement and the Comprehensive Environmental Response, Compensation, and Liability Act.

- **Final remedial investigation/feasibility study (RI/FS) for Building 865 part 2 — 2025**
- **Final RI/FS for Building 812 — 2025**
- **Final proposed plan for Building 812, Building 865, Building 850 perchlorate in groundwater — 2027**
- **Final ROD amendment for Building 812, Building 865, and perchlorate in Building 850 groundwater — 2028**
- **Final remedial design for Building 812, Building 865, and perchlorate in Building 850 groundwater — 2029**

The Livermore Pool Type Reactor, which was deactivated and decommissioned in 1981.

Post-2034 Cleanup Scope

None identified at this time, although there may be more work if additional excess facilities are identified and transferred to EM for demolition.