

**CALIFORNIA ENVIRONMENTAL QUALITY ACT**  
**NOTICE OF DETERMINATION**

To: Office of Planning and Research  
State Clearinghouse  
P.O. Box 3044, 1400 Tenth Street,  
Room 212  
Sacramento, CA 95812-3044

From: Department of Toxic Substances Control  
Permitting Division  
8800 Cal Center Drive  
Sacramento, CA 95826

**Subject:** Filing of Notice of Determination in Compliance with Section 21108 of the Public Resources Code

**Project Title:** Lawrence Livermore National Laboratory Hazardous Waste Facility Permit Renewal

**State Clearinghouse Number:** 1997092041

**Project Location:** 7000 East Avenue, Livermore, CA 94550

**County:** Alameda County

**Project Applicant:** Lawrence Livermore National Laboratory

**Project Description:** The California Department of Toxic Substances Control (DTSC), pursuant to authority granted under California Code of Regulations, Title 22, Division 4.5, Chapter 20, Section 66270.40, prepared an addendum to an existing Initial Study/Negative Declaration for the renewal of a Resource Conservation and Recovery Act (RCRA) equivalent Hazardous Waste Facility Permit (Permit) pursuant to California Health and Safety Code section 25200 for the Department of Energy (DOE) and Lawrence Livermore National Security, LLC (LLNL or Facility) for ten additional years. DTSC received a Permit Renewal application for the Facility as authorized by the California Health and Safety Code, Chapter 6.5. The Facility is located at 7000 East Avenue, Livermore, CA 94550 and operates under a current Hazardous Waste Facility Permit. This Addendum to the previously adopted Final IS/ND has been prepared to address activities associated with the Facility Permit Renewal.

The Permit will reauthorize LLNL to continue to store a maximum of 913,270 gallons of liquid and solid hazardous waste in 12 container storage units. The Permit will allow the continuation of past permitted activities allowing LLNL to treat 45,000 gallons per day of hazardous waste in one tank treatment and storage unit, in association with three (3) miscellaneous treatment units and treat from 0.23 short tons per day to 600 short tons per year in the remaining seven (7) miscellaneous units. The hazardous waste management units (HWMUs) are located in Area 625 and in the Decontamination and Waste Treatment Facility (DWTF) is located at the LLNL main site. All waste management units in these areas can also be used to store and treat hazardous wastes which may potentially have a radiological component (mixed waste).

The proposed Permit Renewal will also authorize LLNL to delineate the DWTF Container Storage Unit, a new storage area in the DWTF. The new DWTF Container Storage Unit will not increase the total permitted

capacity of the facility and the previously authorized capacity of a former storage unit located in Area 612 of LLNL is transferred to the now proposed DWTF Container Storage Unit. Area 612 includes nine units that are no longer permitted, they are scheduled for closure in accordance with the approved closure plan.

Additionally, the DWTF Container Storage Unit will only be authorized to store hazardous wastes that do not contain free liquids and therefore will not require secondary containment.

The proposed Renewed Permit will also authorize LLNL to operate the Building 696 Macroencapsulation Unit (located in Room 1009), a new debris treatment unit in the DWTF. The new Macroencapsulation Unit will not increase the total permitted capacity of the facility or add new waste streams. The treatment capacity of the new unit is combined with that of the other debris treatment unit, the Building 695 Debris Washer Unit.

Macroencapsulation was discussed in EDA Table A as a packaging process.

### **Background:**

LLNL operates a research and development facility that occupies approximately 823 acres. The facility has been used since 1951 to conduct research and development programs on nuclear weapons, magnetic fusion, energy, lasers, biomedical and environmental sciences, and applied energy technology. In addition to the research and development activities, other activities at the facility include numerous institutional support operations which supply security, occupational safety, employee health services, fire suppression, emergency response, facility and infrastructure maintenance and construction, environmental and public protection, and waste management.

The purpose of this addendum is solely to extend the permitted operational period of the Facility for ten years. The Facility has been in existence since the 1950s and has been regulated by DTSC since the 1980s. This project would not affect any aspect of the environment and requires no construction. All operational activities will continue to be consistent with the Permit with minor updates and reorganization of operations. The Facility Permit Renewal would not result in a significant impact on the environment.

As Lead Agency under the California Environmental Quality Act (CEQA), DTSC approved the above-described project on September 30, 2022, and has made the following determinations:

1. The project will not have a significant effect on the environment.
2. A Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
3. Mitigation measures were not made a condition of project approval by DTSC.
4. A Statement of Overriding Considerations was not adopted for this project by DTSC.
5. Findings were not made pursuant to the provisions of CEQA by DTSC.

The administrative record for this project is available to the public by appointment at the following location:

Department of Toxic Substances Control  
Permitting Division  
700 Heinz Ave  
Berkeley, CA 94710

Contact Person	Contact Title	Phone Number
Elena Espada	Hazardous Substances Engineer	(510) 540-3779

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Approver's Signature:

Date:

*Taryn Stokell Buck*

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October 31, 2022

Approver's Name	Approver's Title	Approver's Phone Number
Taryn Stokell Buck	Supervising Hazardous Substances Engineer I	(510) 540-3951

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TO BE COMPLETED BY OPR ONLY

Date Received for Filing and Posting at OPR: