



Department of Energy
National Nuclear Security Administration
Categorical Exclusion Determination Form



Categorical Exclusion ID#: NV-2023-035

Proposed Action Title: Livermore Operations (LO)

Program or Field Office: Nevada Field Office

Location(s) (City/County/State): Livermore, California

Proposed Action Description

Livermore Operations (LO) is under the Management and Operating (M&O) Contractor for the Nevada National Security Site (NNSS). LO is an applied-science and engineering organization engaged in research, diagnostic and instrumentation conceptualization, development, engineering, testing, calibration/ characterization, fielding, and data review/analysis that support Test and Experimentation for Mission Execution.

LO occupies a one-story leased building located at 161 South Vasco Road in Livermore, California. There is no basement/underground. The LO facility consists of administrative and technical personnel who perform work in this facility.

Site and Administration

The Site and Administration department provides business support services to the technical staff of LO. These services include administrative, clerical, facilities preventative and corrective maintenance, shipping/receiving, property, information technology (IT), telecommunications, human resources, procurement, and security. Maintenance staff would be exposed to dust when working with sheetrock materials, vinyl coated floor tiles, and drilling into concrete foundation for anchoring equipment. Minor brazing of copper tubing, welding, grinding, cutting, and soldering would occur.

Technical Laboratories

Circuit board component level soldering would be performed. Solvents would be used to clean optics. Liquid nitrogen would be used to cool detectors in the High Energy X-ray (HEX) Lab and Advanced Sensor Development Lab. Some detector development that would be used with phosphor deposition contains cadmium as a main constituent. Sealed radioactive sources would be used in the calibration of diagnostics. Beryllium would be used as a filter/fluorescer on the X-ray sources.



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Categorical Exclusion(s) Applied

10 CFR 1021, B3.6 Small-scale research and development, laboratory operations, and pilot projects

Regulatory Requirements in 10 CFR 1021

For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, including the full text of each categorical exclusion, see Subpart D of 10 CFR 1021.

To find that a proposal is categorically excluded, DOE shall determine the following:

- (1) The proposal fits within a class of actions listed in Appendix A or B to 10 CFR Part 1021, Subpart D;
- (2) There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal; and
- (3) The proposal has not been segmented to meet the definition of a categorical exclusion. The proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

The classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, include the following conditions as integral elements of the classes of actions. To fit within the classes of actions in Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those of the Department of Agriculture, the Environmental Protection Agency, and the National Institutes of Health.



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NEPA Compliance Officer Determination

Based on my review of information conveyed to me and in my possession concerning the proposed action, as NEPA Compliance Officer (as authorized under NNSA NAP 451.1 and DOE P 451.1), I have determined that the proposed action fits within the specified class(es) of action and I have reviewed the proposal for integral elements. I have determined that there are no extraordinary circumstances present and that the proposal has not been segmented to meet the definition of a categorical exclusion. Therefore, the application of a categorical exclusion is appropriate.

NEPA Compliance Officer: Patricia Gallo

Date Determined: September 6, 2023