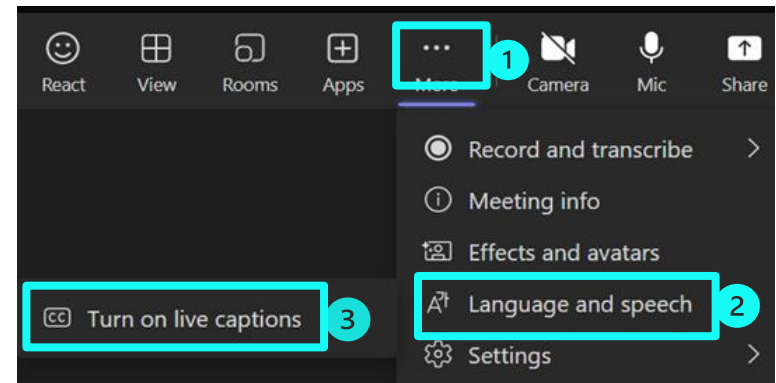


## Thank you for joining the Public Hearing for the Los Alamos National Laboratory (LANL) Draft Site-Wide Environmental Impact Statement (SWEIS)

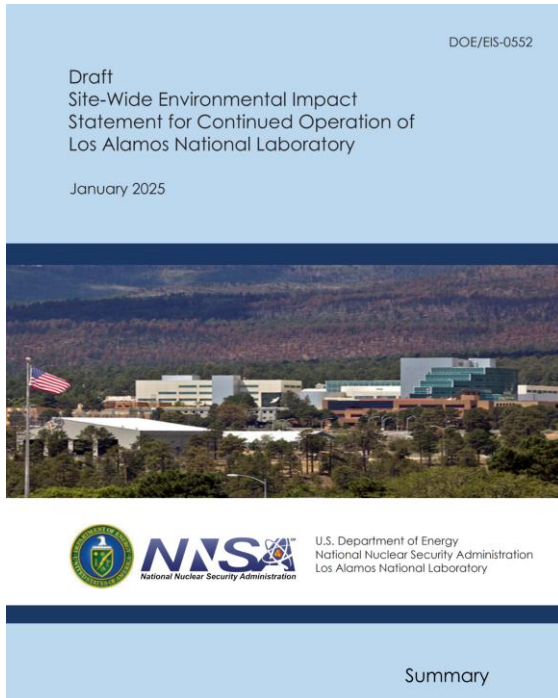
The meeting will begin shortly.

For closed captions:

- Click More • • • at the top of the screen
- Click 'Language and Speech'
- Click 'Turn on live captions'



# Welcome to the Public Hearing for the Los Alamos National Laboratory (LANL) Draft Site-Wide Environmental Impact Statement (SWEIS)



**Presented by:**  
**Stephanie Stringer**  
**Deputy Manager**

**NNSA Los Alamos Field Office**

**February 2025**

Summary

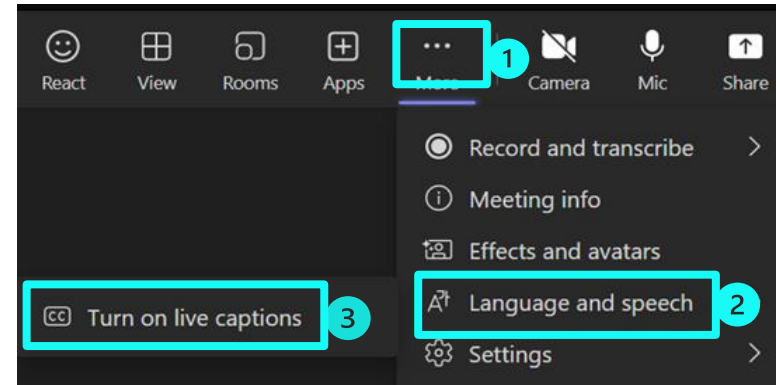
- On January 10, 2025, DOE/NNSA and EPA published a Notice of Availability in the *Federal Register* for the Draft LANL SWEIS. The Notice also announced the planned hearings in Santa Fe, Española, and Los Alamos, New Mexico
- Presentation, fact sheets, hearing posters and other materials are posted on the NNSA NEPA Reading Room:  
<https://www.energy.gov/nnsa/nnsa-nepa-reading-room>
- Fact sheets and the presentation are available in Spanish
- Hard copies of the Draft SWEIS are also available for review in the LANL Reading Room (94 Cities of Gold Road, Pojoaque) and other libraries in Northern New Mexico.

**Your input will assist DOE/NNSA in preparing the Final SWEIS;  
The comment period is scheduled to end March 11, 2025**

# Teams Tools

## Closed Captioning

- Select More • • •
- Select “Language and speech”
- Click “Turn on live captions”



## Screen Layout

- To adjust the layout on your screen, select View
- Choose the preferred view from available choices.  
Options include Full Screen, Gallery View, and Focus on Content

## Meeting Presentation online at:

<https://www.energy.gov/nnsa/nnsa-nepa-reading-room>

**PURPOSE:** Present a summary of and receive public comments on the LANL Draft Site-wide Environmental Impact Statement

Topic	Party	Duration
Welcome/Logistics	Wendy Green-Lowe, Moderator	5 minutes
Introductory Remarks	Ted Wyka, NA-LA Site Manager	5 minutes
Presentation of the SWEIS	Stephanie Stringer, NA-LA Assoc Dep Mngr	20 minutes
Comment Procedures	Wendy Green-Lowe, Moderator	5 minutes
Public Comments	Wendy Green-Lowe, Moderator	2 hours
Next Steps	Wendy Green-Lowe, Moderator	5 minutes



**Wendy Green Lowe**  
Independent  
Moderator



**Ted Wyka**  
Los Alamos Field Office  
Manager  
National Nuclear Security  
Administration  
Department of Energy



**Stephen Hoffman**  
Los Alamos Field Office  
NEPA Document Manager  
NEPA Compliance Officer  
National Nuclear Security  
Administration  
Department of Energy

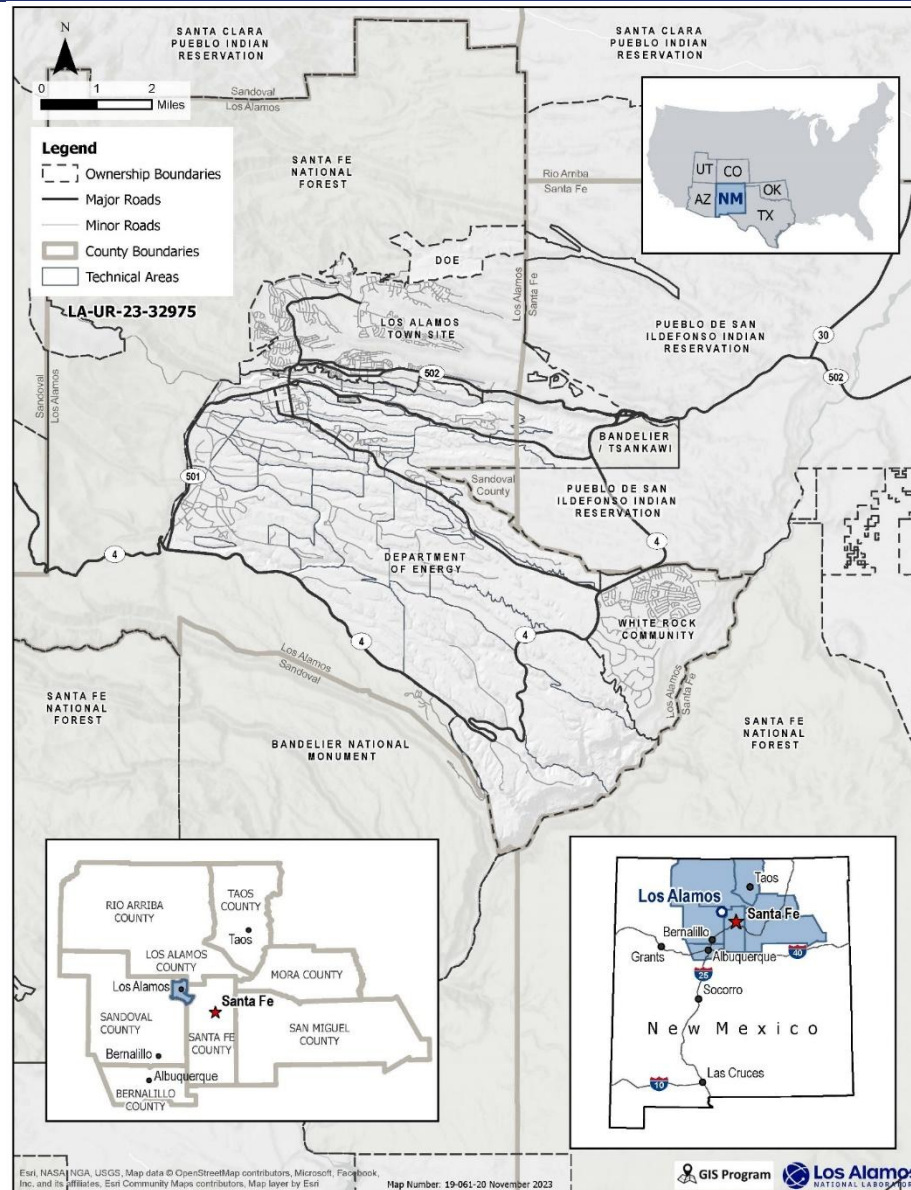


**Stephanie Stringer**  
Los Alamos Field Office  
Assoc. Deputy Field Office  
Manager for Business,  
Security, and Mission  
National Nuclear Security  
Administration  
Department of Energy

- **One of three national security laboratories responsible for assessing the safety, security, reliability, and military effectiveness of the U.S. nuclear weapons stockpile**
- **Founded in 1943, currently employs over 15,000 federal and contractor staff with a current budget of about \$4.6B**
- **LANL occupies approximately 40 square miles (over 26,000 acres)**



# LANL Regional Perspective



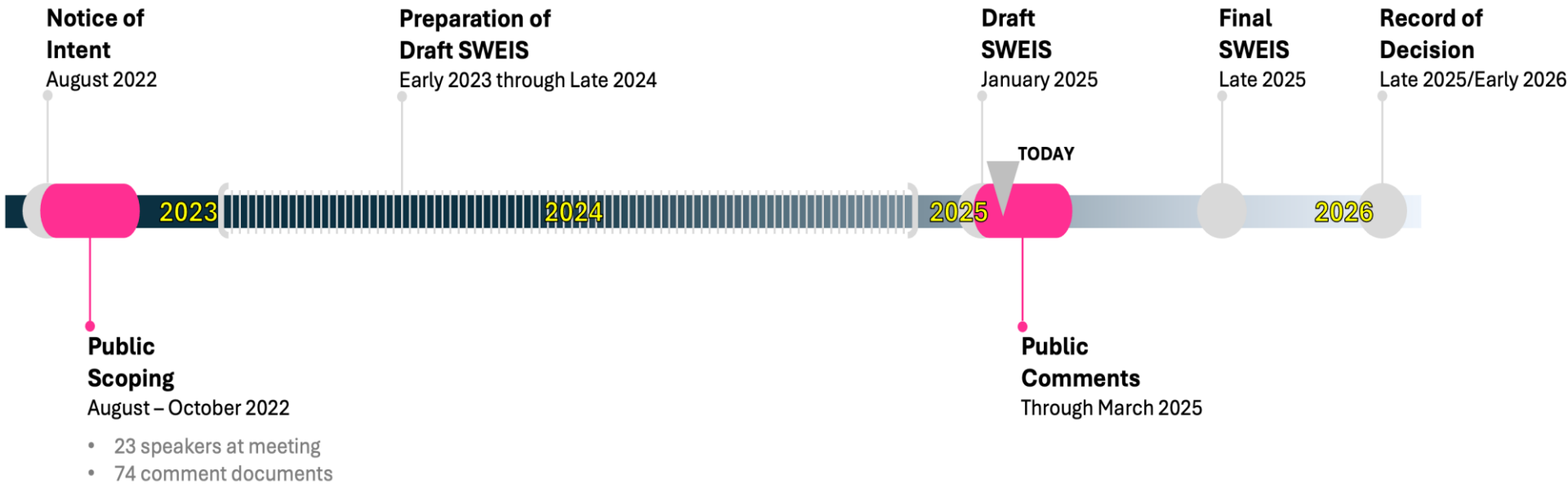


## Background – NNSA and DOE Missions

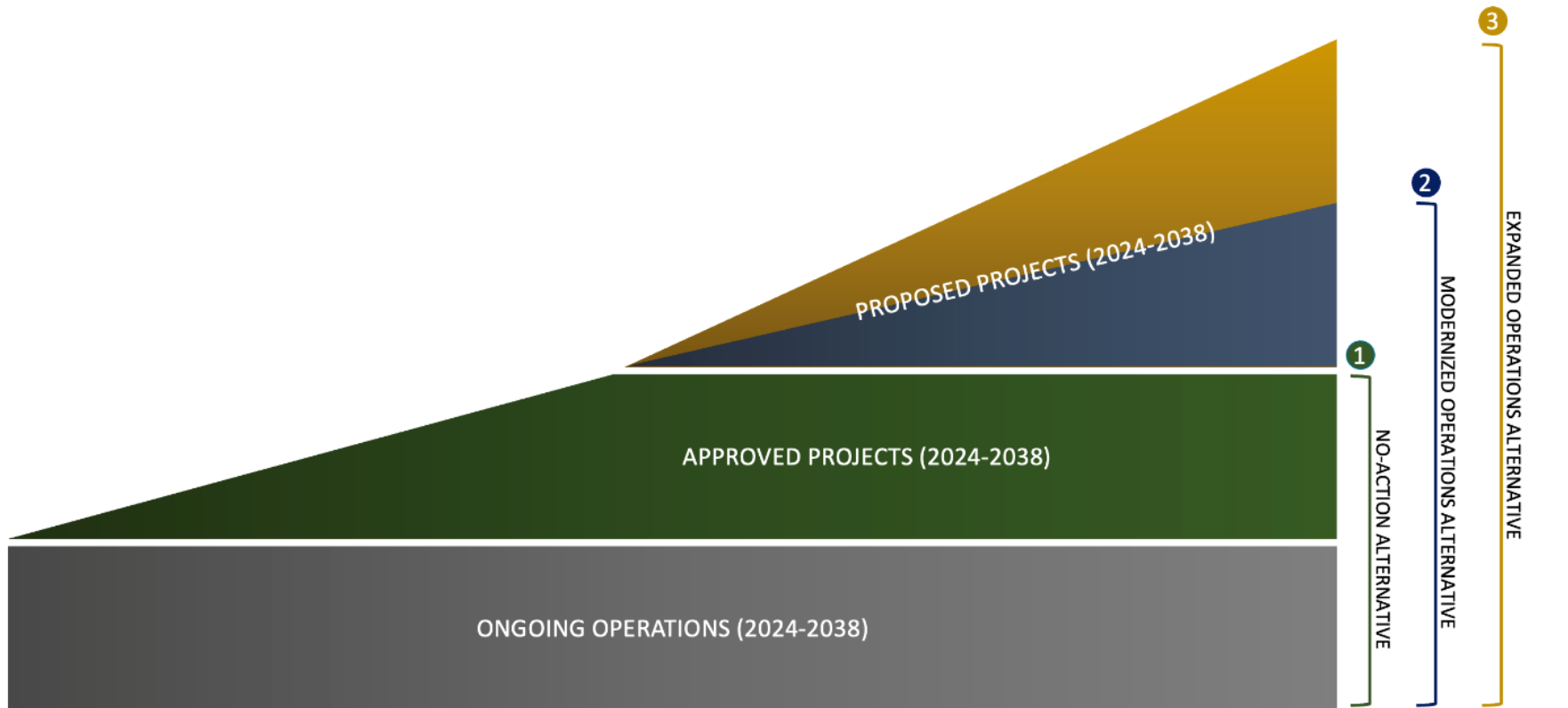


- **NNSA's Mission**
  - Enhance National Security - military application of nuclear energy
  - Maintain and enhance the nuclear weapons stockpile
  - Power the Nuclear U.S. Navy
  - Promote international nuclear safety and nonproliferation
  - Reduce global dangers from weapons of mass destruction
  - Support U.S. leadership in science, engineering, and technology
- **LANL provides engineering, production, scientific, computational, and experimental capabilities to meet these missions**
- **DOE's Office of Environmental Management is responsible for cleanup of legacy contamination and waste in accordance with the Compliance Order for Consent with New Mexico**
- **Other DOE offices involved with LANL include Legacy Management, Science, and Intelligence and Counterintelligence**

# LANL SWEIS Timeline



- The Draft SWEIS analyzes the following resource areas:
  - ❖ Land Resources (Land Use and Visual)
  - ❖ Geology and Soils
  - ❖ Water Resources
  - ❖ Air Quality and Noise
  - ❖ Ecological Resources
  - ❖ Human Health and Safety
  - ❖ Cultural and Paleontological Resources
  - ❖ Socioeconomics
  - ❖ Infrastructure
  - ❖ Waste Management
  - ❖ Transportation
  - ❖ Accidents and Intentional Destructive Acts
- For each resource area, the SWEIS presents potential impacts for each of the three alternatives and identifies Best Management Practices and any mitigation measures required to eliminate or limit those potential impacts.



### Approved & Proposed Projects Include:

- New facility construction projects
- Modernization/upgrade of existing facilities, infrastructure, site utilities
- Operational changes
- Decontamination, decommissioning, and demolition (DD&D)

- 1 No-Action Alternative:** includes ongoing operations plus previously-approved projects (with separate completed NEPA documents)
- 2 Modernized Operations Alternative:** includes No-Action Alternative plus Modernization Operations Alternative projects (NEPA analyses in this SWEIS)
- 3 Expanded Operations Alternative:** includes No-Action Alternative, Modernization Operations Alternative, and Expanded Operations Alternative projects (NEPA analyses in this SWEIS)

\*the level of operations is not to scale because the scale depends on the resource area being evaluated

## ➤ **New Facility Construction**

- ❖ 23 new facility construction projects totaling about 34 acres, for which NEPA review is done or underway through 2024 and expected to be complete before completion of the SWEIS. Examples include
  - Warehouses (22) and Offices (23)
  - Fire stations (3) and Cafeterias (3)

## ➤ **Modernization/Upgrade/Infrastructure**

- ❖ 11 projects including existing facility upgrades and infrastructure or utilities.
  - Electric Power Capacity Upgrade (undergoing separate NEPA review)
  - Roads and Parking
  - Institutional laydown areas

## ➤ **Operational Changes**

- ❖ Implementation of the pit production mission
- ❖ Venting of Flanged Tritium Waste Containers (FTWCs)

## ➤ **Decontamination, Decommissioning, and Demolition (DD&D)**

- ❖ 186 excess facilities, 1.6M square feet.

## ➤ **Continued Remediation in Compliance with the Consent Order**

## ➤ **New Facility Construction**

❖ 35 new facility construction projects (79 acres) to replace facilities approaching their end of life, upgrade facilities to extend their lifetimes, and improve work environments to enable NNSA to meet operational requirements. Examples:

- Warehouses (34), Offices (33), and Laboratories (27)
- Security Facilities (8) and Parking Structures (5)
- Explosives and Lasers Facility

## ➤ **Modernization/Upgrade/Infrastructure**

❖ 27 projects including facility upgrades and infrastructure or utilities. Examples:

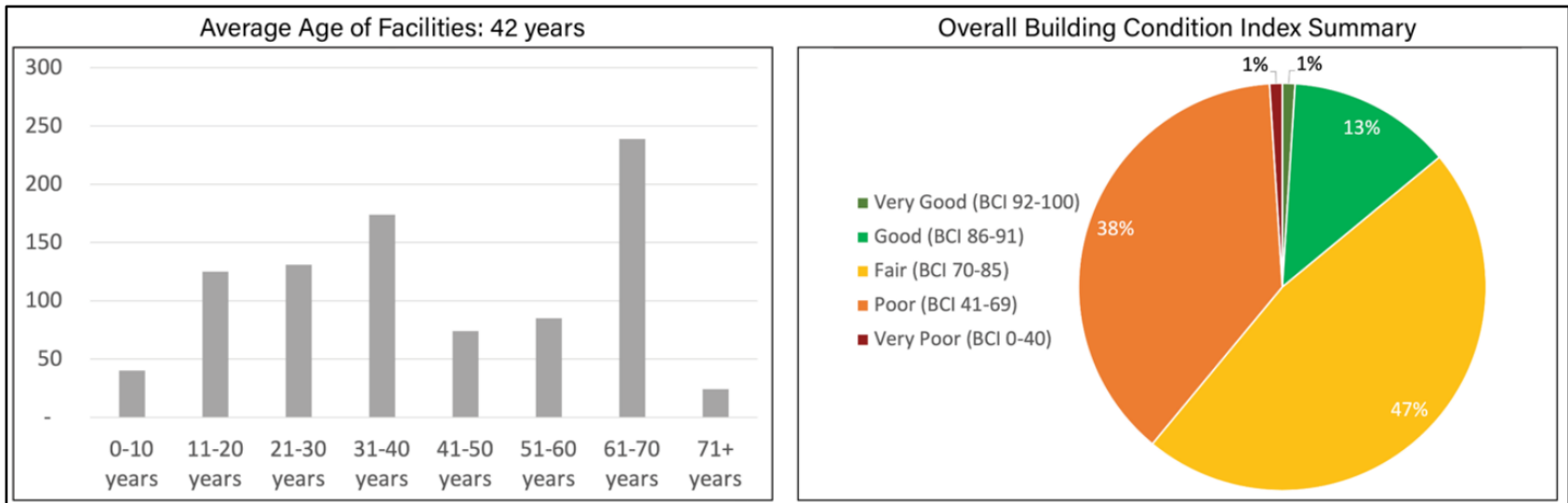
- Solar PV Arrays (up to 795 acres and 158 MW)
- Sanitary Wastewater System Replacement
- LA Canyon Bridge Replacement
- TA-72 Remote Parking Area (~25 acres)

## ➤ **Decontamination, Decommissioning, and Demolition (DD&D)**

❖ 156 additional excess facilities, 1.2M additional square feet.

## ➤ **Includes all No-Action Alternative Projects**

# Modernized Operations Alternative



- **New Facility Construction (18 projects – 21 acres)**
  - ❖ To expand operations and missions to respond to future national security challenges and meet increasing requirements. Examples include:
    - New x-ray-free electron laser facility near LANSCE (DMMSC)
    - Microreactor;
    - TRU Waste Staging
    - Open Burn/Open Detonation Advanced Technology Facilities
    - Future Supercomputer Infrastructure with Water Treatment Facility
- **Utilities/Infrastructure – examples include:**
  - ❖ Pumped Hydropower
  - ❖ LANSCE Cooling Tower
- **Operational Changes**
  - ❖ Wildland Fire Risk Reduction Treatments
  - ❖ Feral Cattle Management
- **No additional DD&D beyond what is analyzed for the No-Action and Modernized Alternatives**
- **Includes all No-Action and Modernized Operations Projects**



# Summary of Impacts



<b>Land Use and Visual Resources</b>	<p><u>No-Action Alternative</u>: 129 acres land development on or near LANL. (34 acres of facilities, 132 acres of infrastructure, and 37 acres recovered through DD&amp;D)</p> <p><u>Modernized Operations</u>: An additional 979 acres land development on LANL (79 acres of facilities, 928 acres of infrastructure, and 28 acres recovered through DD&amp;D)</p> <p><u>Expanded Operations</u>: An additional 1,046 acres permanent land development on LANL (100 acres of facilities, 974 acres of infrastructure, and 28 acres recovered through DD&amp;D).</p> <p><u>Visual (All Alternatives)</u>: Temporary changes to the visual appearance during construction, DD&amp;D, and remediation. Presence of replacement bridge, solar arrays, and pumped hydropower could alter visual resource management classes for some locations.</p>
<b>Geology and Soils</b>	<p><u>All Alternatives</u>: Onsite soil disturbance related to developed acreage. Ongoing remediation efforts would continue to improve soil conditions. Any new facility would be designed and constructed to meet seismic design criteria commensurate with the risk category requirements.</p>
<b>Water Resources</b>	<p><u>All Alternatives</u>: New facilities would increase impervious surfaces, which could increase stormwater runoff, which is managed through a stormwater pollution prevention plan. No adverse impacts are expected, and remediation efforts would continue to improve groundwater conditions, especially in Sandia and Mortandad canyons. Potential impacts to floodplains under the Expanded Operations Alternative would be mitigated during construction by compliance with the <i>Clean Water Act</i> and EO 11988, <i>Floodplain Management</i>.</p>

# Summary of Impacts



<b>Air Quality, Greenhouse Gases, and Noise</b>	<p><u>All Alternatives:</u> Fugitive dust would be generated during clearing, grading, and other earth-moving operations. Emissions would be below <i>de minimis</i> thresholds, except for PM<sub>10</sub>. Increases in GHG emissions would be between 10,500 MT CO<sub>2</sub>eq and 18,100 MT CO<sub>2</sub>eq.</p> <p>Potential radiological emissions are noticeably less than 2008 SWEIS and impacts are evaluated under Human Health.</p> <p>Minor increases in noise impacts (construction) within 800 feet of the site boundary.</p>
<b>Ecological Resources</b>	<p><u>All Alternatives:</u> Projects are proposed in undeveloped habitat for the Mexican spotted owl. Some projects in the Modernized and Expanded Operations also potentially affect habitat for the Jemez Mountains Salamander. These projects would involve consultation with the USFWS and review under the LANL Habitat Management Plan.</p> <p><u>Expanded Operations:</u> Management of feral cattle would reduce or eliminate ongoing impacts (e.g., trampling and overgrazing of riparian vegetation, degradation of water quality from cattle defecations, and increased soil erosion from degradation of vegetation cover). Wildland fire risk reduction treatments would allow for removal of damaged or diseased high-risk trees within the species' habitats.</p>
<b>Human Health</b>	<p><u>All Alternatives:</u> Radiological doses to the public and workers would remain well below regulatory limits. Dose to maximally exposed individual would typically be less than 4 mrem per year, which is less than half of the regulatory dose limit. Statistically, the projected total dose to almost 5,000 radiation workers would result in up to 0.38 latent cancer fatalities (LCFs) annually.</p>

# Summary of Impacts



<b>Cultural Resources</b>	<p><u>All Alternatives</u>: Projects are evaluated in accordance with the LANL Programmatic Agreement to identify any significant cultural resources that could be impacted and develop mitigations to avoid or reduce the impacts. These efforts would include consultation with tribes. DOE/NNSA would manage projects in accordance with Programmatic Agreement and Cultural Resources Management Plan and initiate Section 106 consultation, as needed.</p>
<b>Socio-economics</b>	<p><u>No-Action Alternative</u>: 1,530 additional direct employment; 700 additional indirect employment; and \$246.8M value added to Northern NM.</p> <p><u>Modernized Operations</u>: Above No-Action, 780 additional direct employment; 284 additional indirect employment; and \$102.9M value added to Northern NM.</p> <p><u>Expanded Operations</u>: Above No-Action, 915 additional direct employment; 495 additional indirect employment; and \$171.7M value added to Northern NM.</p>
<b>Waste Management</b>	<p><u>All Alternatives</u>: Increased shipments of waste from DD&amp;D. Wastes would not exceed the capabilities or capacity of the waste receiving facilities. Includes wastes from continued environmental remediation.</p> <p><u>No-Action Alternative</u>: LLW 9,754 m<sup>3</sup>/yr; 280 m<sup>3</sup>/yr MLLW; 652 m<sup>3</sup>/yr TRU</p> <p><u>Modernized Operations</u>: Total LLW 10,680 m<sup>3</sup>/yr; 296 m<sup>3</sup>/yr MLLW; 655 m<sup>3</sup>/yr TRU;</p> <p><u>Expanded Operations</u>: Total LLW 12,051 m<sup>3</sup>/yr; 323 m<sup>3</sup>/yr MLLW; 670 m<sup>3</sup>/yr TRU</p>

# Summary of Impacts



## Infrastructure

All Alternatives: Existing infrastructure (domestic water, wastewater, electric power and demand, natural gas, and petroleum fuels) would be adequate to meet all requirements; electrical capacity for projects under the Modernized or Expanded Operations alternatives assume implementation of the EPCU project. Natural gas and petroleum fuel use decline as projected in Site Sustainability Plan.

## Transportation and Traffic

All Alternatives: Construction/DD&D activities would utilize the existing transportation infrastructure in the region and could cause periodic light-to-moderate adverse impacts to local traffic flows. A gradual increase (i.e., less than or equal to 2.1 percent per year in the first 4 years) in the LANL workforce under each alternative would not be expected to significantly impact operation of the primary and secondary road networks. Increased parking areas and structures would help alleviate onsite parking and traffic problems.

Radiological Transportation: During operations, DD&D, and environmental remediation, LANL would regularly transport radiological waste, special nuclear material, and other nuclear materials to and from the LANL site. For the alternatives, the range of potential impacts include:

- Risk to transport crews (0.69 LCF to 0.72 LCF)
- Risk to the offsite public (0.092 LCF to 0.10 LCF)
- Transportation Accident Risk to the offsite public ( $5.6 \times 10^{-4}$  LCF/yr)
- Non-radiological traffic fatalities (0.038 to 0.045)

# Summary of Impacts



## Accidents

All Alternatives: For each of the alternatives, NNSA considered a range of potential accident scenarios that could occur and evaluated the potential consequences and risks (including probability) to an involved worker, non-involved worker, an offsite maximally-exposed individual, and the offsite population within a 50-mile radius of the LANL Site. NNSA also evaluated the potential risks from site-wide events such as seismic events and wildland fires that could theoretically affect multiple facilities. The potential risk to the offsite population within 50 miles of the LANL site from any accident scenario would be no more than  $2.82 \times 10^{-4}$  LCF/year (assuming conservative meteorology). For a sitewide event, the potential accident risk to the same population would be no more than  $3.75 \times 10^{-4}$  LCF/year.

## Intentional Destructive Acts

All Alternatives: Potential impacts from intentional destructive acts may be similar to or could exceed the range of potential accident impacts presented in the SWEIS. Analysis of these potential impacts is presented in a classified appendix.

## DOE/NNSA wants your comments on the Draft LANL SWEIS

There are three ways to provide comments:

- ❖ **Verbal:** During today's hearing
- ❖ **Email:** [LANLSWEIS@NNSA.DOE.GOV](mailto:LANLSWEIS@NNSA.DOE.GOV)
- ❖ **Mail:**  
LANL SWEIS Comments  
National Nuclear Security Administration  
Los Alamos Field Office  
3747 W. Jemez Road  
Los Alamos, New Mexico 87544

# Ground Rules for Commenting

- At any time during this hearing, participants may indicate that they wish to make a formal comment. **There will be no exchange of questions and answers during this hearing.**
- Commenters will have 3 minutes. Comments will be provided by individuals. Time cannot be shared with others.
- We will alternate between speakers in the room and online attendees.
- If you have written comments, please submit them by either email to [LANLSWEIS@NNSA.DOE.GOV](mailto:LANLSWEIS@NNSA.DOE.GOV) or postal mail. If you also want to speak today, please summarize your comments.
- Today's hearing is on the Draft LANL SWEIS. Please limit your comments to this topic.

# How Do I Participate Virtually?



## Verbal Comment On a Computer/Mobile Device

Raise your hand to be recognized and have your microphone unmuted.



## Verbal Comment On Phone

Dial \*6.

The moderator will unmute your line.

Callers are requested to identify themselves for the record.



- **Questions about the Process?**
- **Transcribed Comment Session**
- **Your Federal Official hosting this hearing is the LANL NEPA Compliance Officer, Mr. Stephen Hoffman**
- **Scheduled Hearings**
  - Feb 11, 1-4pm, Santa Fe Convention Center
  - Feb 11, 5-8pm, Santa Fe Convention Center
  - Feb 12, 5-8pm, Mision y Convento, 405 N. Paseo de Oñate, Española
  - Feb 13, 5-8pm, Fuller Lodge, 2312 Central Avenue, Los Alamos

**Thank you for participation and respect for  
all participants in the process.**

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Raise your hand to be recognized and have your microphone unmuted.



## Verbal Comment On Phone

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The moderator will unmute your line.

Callers are requested to identify themselves for the record.

- The comment period is scheduled to close on March 11, 2025.
- All comments will be addressed in the Final LANL SWEIS
- Additional comments may be submitted by:
  - Email: [LANLSWEIS@NNSA.DOE.GOV](mailto:LANLSWEIS@NNSA.DOE.GOV)
  - Mail: LANL SWEIS Comments  
NNSA Los Alamos Field Office  
3747 W. Jemez Road  
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**Thank you for attending today's hearing**