

Welcome to the Scoping Meeting for the Lawrence Livermore National Laboratory (LLNL) Site-Wide Environmental Impact Statement (SWEIS)

The meeting will begin at 6:00pm

For **closed captioning**, select “More Options” – a circle with 3 dots – and then select “Multimedia Viewer”

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Agenda



- Welcome
- Meeting Logistics
- Livermore Field Office Remarks
- Livermore Laboratory Remarks
- Scoping Process Overview
- National Environmental Policy Act Process (NEPA) for the Site-Wide Environmental Impact Statement
- Public Comment Period

- This NNSA presentation will last approximately 30 minutes. The meeting is scheduled to last until 8:00 PM PDT.
- This presentation is followed by an opportunity for the public to provide oral comments that will be recorded and transcribed for formal inclusion in the project record.
- At any time during this meeting, participants may indicate that they wish to make a formal comment.
- If you have written comments, please summarize them and also submit your written comments by either email to LLNLSWEIS@NNSA.DOE.GOV or postal mail.
- Today's meeting is on the scope of the Site-Wide Environmental Impact Statement for the Lawrence Livermore National Laboratory. Please limit your comments to this topic.

- All comments will be considered equally, whether spoken, mailed, or sent via electronic mail. Please remember that the comment period closes September 21, 2020.
- Any individual person wishing to make an oral comment will have an opportunity to do so, within the time limitations of the hearing.
- The time allocated for each individual commenter is 3 minutes. Please limit your comment to the time allowed. Unused time may not be deferred to another commenter.
- If you have a written comment, please consider summarizing it during your oral comments and provide the written document for the record.
- Speakers will be recognized in order and will be identified before their microphone is unmuted. Speakers will only be recognized once.
- Please be respectful of others, even if you don't agree with their comments.



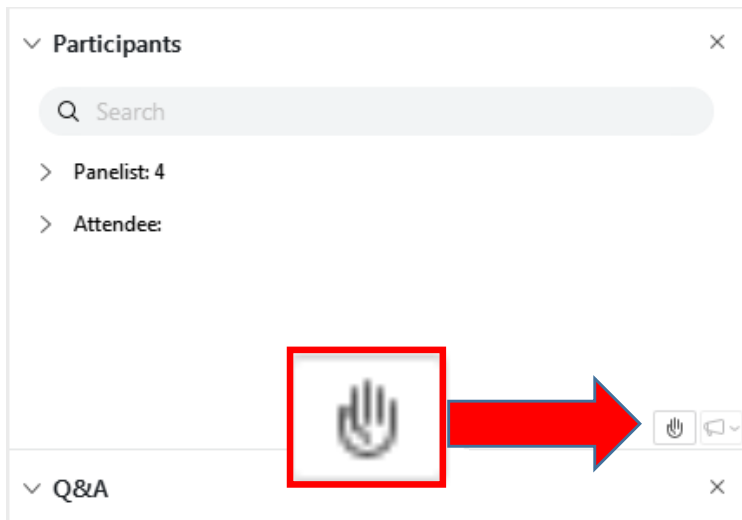
How to Provide Comments



- Verbal: During tonight's meeting
- Email: LLNLSWEIS@NNSA.DOE.GOV
- Mail: Ms. Fana Gebeyehu-Houston
NEPA Document Manager, NNSA,
Livermore Field Office
PO BOX 808, L-293
7000 East Avenue
Livermore, California 94551-0808

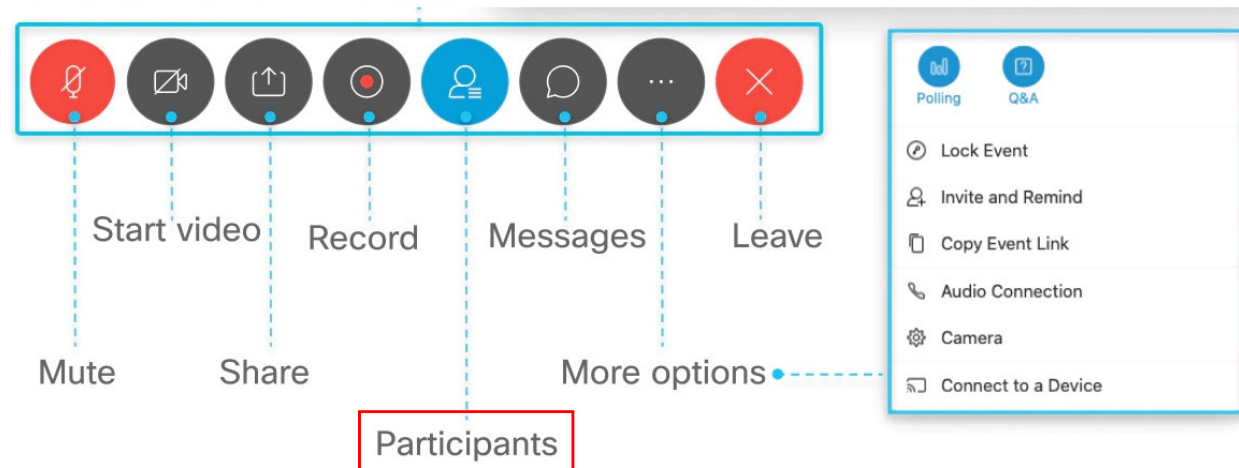
Verbal Comment On a Computer/Mobile Device

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Verbal Comment On Phone

Press *3. The moderator will unmute your line. Callers are requested to identify themselves for the record.





Jacqueline Boltz
Moderator
Tetra Tech, Inc.



Janis Parenti
Livermore Field Office
Deputy Manager
National Nuclear Security
Administration
Department of Energy



Fana Gebeyehu-Houston
Livermore Field Office
NEPA Document Manager
National Nuclear Security
Administration
Department of Energy



Ellen Raber
Deputy Program Director
Lawrence Livermore
National Laboratory

- LLNL is a key partner with NNSA in the preparation of the SWEIS.
- Our understanding of both the community and the Laboratory's national security mission will be important to this process.
- Community involvement will continue to be an important Laboratory activity.
- Partnering with K-12 education, community colleges, universities, and industry has allowed us to make significant contributions to the broader community.

Livermorium Dedication Day



Science, Technology, Engineering and
Math (STEM) Day at LLNL



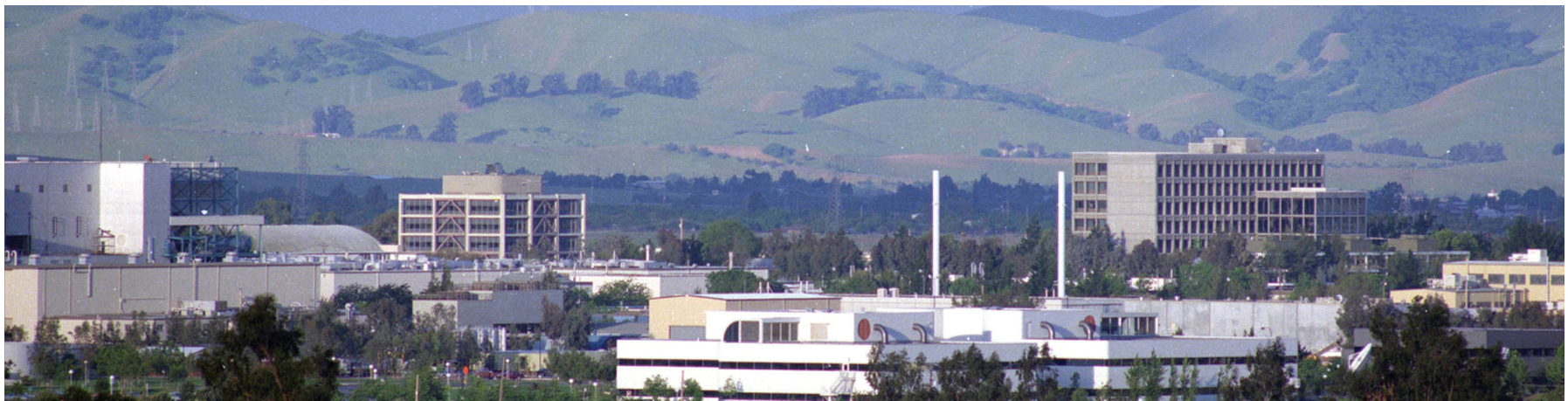
Fun with Science Program



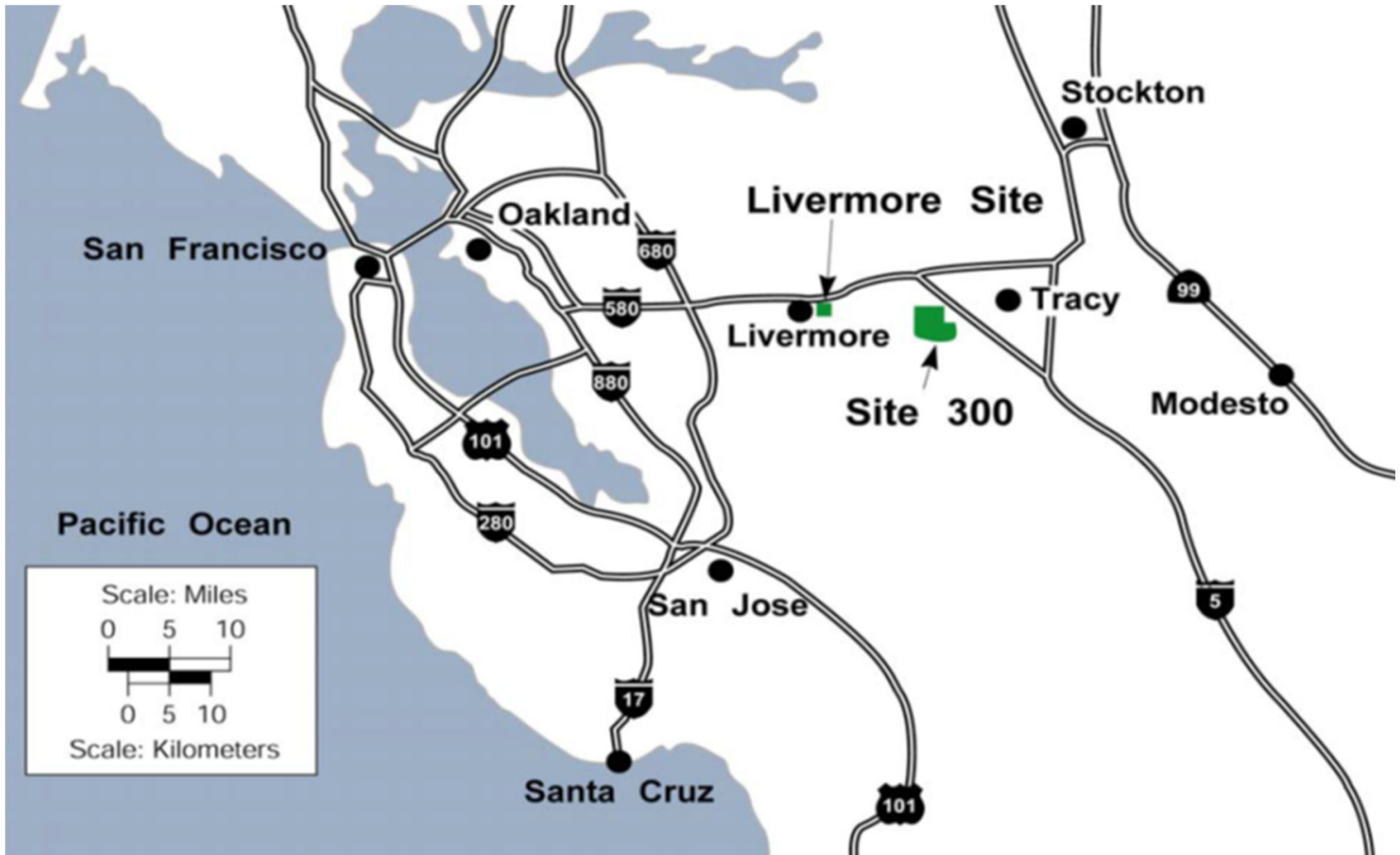
- On August 5, 2020, NNSA published a Notice of Intent to prepare the LLNL SWEIS. Public notification also included letters to local elected officials, community leaders, Laboratory neighbors, ads in area newspapers, and use of social media. NNSA is using a virtual, online meeting to prevent the spread of COVID-19.
- This approach:
 - Allows NNSA to reach a broader audience with the same presentation.
 - Allows nationwide participation in the meeting.
 - Is consistent with Council on Environmental Quality and/or Department of Energy NEPA guidance.
- In addition to today's meeting, the other methods for submitting comments on the SWEIS scope remain available (e.g., email or postal mail).

Your input will assist the NNSA in defining the scope of SWEIS analyses;
45-day scoping comment period ends September 21, 2020.

- One of three National Laboratories responsible for certifying the safety, reliability, and performance of the U.S. nuclear weapons stockpile.
- Founded in 1952, 68 years in operation.
- Employs around 7,400.
- Current budget is approximately \$2.28 billion/year.
- Consists of two federally-owned sites:
 - 770-acre site in Livermore, California (Livermore Site).
 - 7,000-acre experimental test site (Site 300) southeast of the Livermore Site between Livermore and Tracy, California.



LLNL Location



- LLNL's defining mission is the Stockpile Stewardship Program.
- The Stockpile Stewardship Program enables NNSA to extend the design and service life of nuclear weapons and ensure the continued safety, reliability, and performance of these weapons.
- LLNL's mission is broader than stockpile stewardship as the expertise cultivated at the Lab is applied to national security and global stability issues ranging from nuclear proliferation and terrorism to biosecurity and climate change.
- Programs at LLNL support many DOE and NNSA missions and other federal agencies such as the Department of Defense, the Department of Homeland Security, state and local agencies, private and academic sponsors, and other scientific collaborators.

Basic science expertise is the engine that drives research at LLNL. It ensures that LLNL's research capabilities remain at the cutting edge and that LLNL scientists and engineers are prepared to solve critical challenges across national missions including:

- Biosecurity
- Counterterrorism
- Defense
- Energy
- Intelligence
- Nonproliferation
- Science
- Weapons



Purpose and Need for SWEIS



- The U.S. must have the ability to maintain and certify a safe, reliable, and effective nuclear arsenal.
- The 2018 Nuclear Posture Review reaffirms the role of an effective, responsive, and resilient nuclear weapons infrastructure for national security.
- Over half of NNSA's infrastructure is over 40 years old, and 25% dates to the early 1950s.
- LLNL plans to replace aging assets that present challenges in executing mission needs, which will attract and maintain a high-quality workforce, and meet regulatory requirements.

1992 | EIS/EIR Record of Decision

- First comprehensive site-wide strategy

2005 | SWEIS Record of Decision

- Increase the tritium administrative and the material-at-risk limit for the Tritium Facility
- Use plutonium, other-fissile materials, fissionable materials, and lithium hydride in experiments at National Ignition Facility (NIF)
- Increase administrative limit and material-at-risk limit for plutonium operations

2020 | Notice of Intent (NOI)

- The NOI announces the intent to prepare the Site-Wide Environmental Impact Statement to analyze the potential environmental impacts for continuing operations of LLNL for approximately the next 15 years.

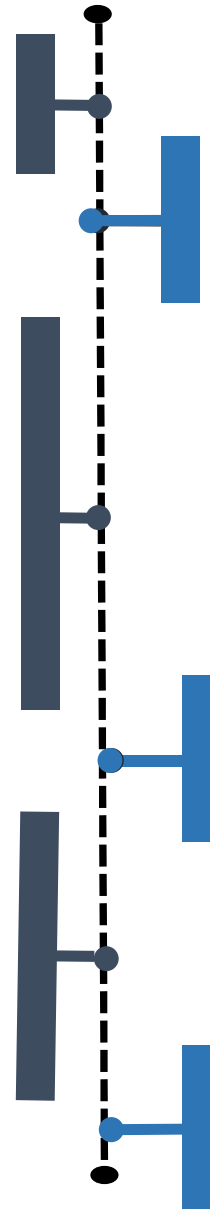
1999 | Supplement Analysis

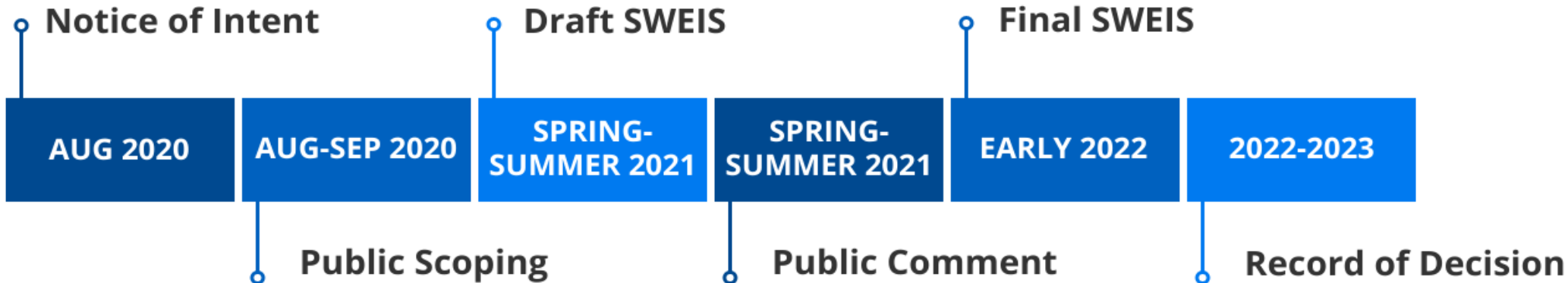
- No supplement of the 1992 SWEIS required

2011 | Supplement Analysis

- No supplement of the 2005 SWEIS required

2022-2023 | SWEIS Record of Decision





- Provides for public involvement and ensures that public officials consider the environmental effects of proposed actions and alternatives in order to foster better decision-making.
- EIS is required for any major federal action that may significantly affect the quality of the human environment.
- SWEIS provides a comprehensive analysis of site-wide activities.
- Scoping process enables public participation in the SWEIS process.
- Input from scoping will assist NNSA in formulating the proposed action, refining the alternatives, and defining the scope of SWEIS analyses.

- **No Action:** Continue current facility operations throughout LLNL in support of assigned missions.
 - Provides a benchmark for comparison with environmental effects of the other alternatives.
 - Includes the programs and activities for which NEPA review is already done or underway.

- **Proposed Action:** Includes the scope of the No Action Alternative and an increase in current facility operations that may require new or modified facilities and are reasonably foreseeable over the next 15 years.
 - Addresses aged assets and mitigates risk and meets regulatory requirements.

- New Facility Construction Projects
 - Approximately 55 new facility construction projects:
 - Laboratory facilities: engineering, computing, research/development.
 - General office buildings and maintenance facilities.
 - Science centers and additional fire station.
- Modernize/Upgrade Existing Facilities and Infrastructure
 - Approximately 65 projects, including upgrades to infrastructure, National Ignition Facility, bioscience facilities, computing capabilities, and seismic risk reduction.
 - Site wide utility upgrades.
- Operational Changes
 - Changes to tritium emissions limits and Administrative Limit for Plutonium and accident scenarios.
- Decontamination, Decommissioning, and Demolition Projects
 - 110 excess facilities, totaling more than 1.1 million square feet.

- Evaluating the reasonableness of other Reduced Operations Alternatives or Expanded Operations Alternatives.

- Alternatives that NNSA will not consider as reasonable because they are inconsistent with the LLNL mission defined by NNSA.
 - Complete closure and decontamination and decommissioning of the Livermore Site or Site 300.
 - Transfer of current missions/operations from LLNL to other sites.

NNSA welcomes input on any other alternatives that the public identifies for the SWEIS

- Summary
- Introduction and Background
- Purpose and Need
- LLNL Missions
- Alternatives
- Affected Environments
- Environmental Impacts
- Regulatory Compliance
- Technical Appendices

- Land Use
- Air Quality and Noise
- Water Resources
- Biotic Resources
- Cultural Resources
- Waste Management
- Infrastructure/Utilities
- Geology and Soils
- Site Contamination and Remediation
- Aesthetics and Scenic Resources
- Socioeconomics Characteristics and Environmental Justice
- Human Health and Safety
- Traffic and Transportation
- Accident Analysis and Intentional Destructive Acts

- NNSA will consider the following input when assessing the ROD:
 - SWEIS (including public input)
 - Technical
 - Policy
 - Cost

Record of Decision will announce decision regarding continued operations at LLNL



How to Provide Comments

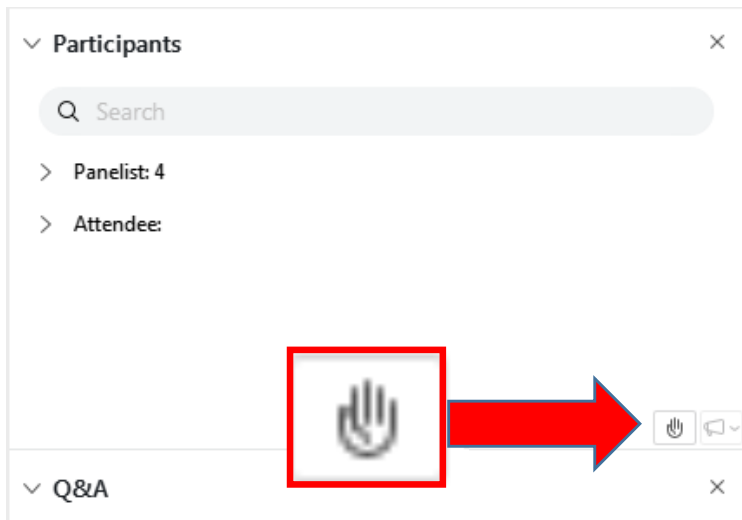


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PO BOX 808, L-293
7000 East Avenue
Livermore, California 94551-0808
- Project Information: <https://www.energy.gov/nnsa/nnsa-nepa-reading-room>
- 45-day scoping period ends on September 21, 2020

The next opportunity for public input will follow publication of the draft SWEIS (expected in Spring/Summer of 2021). The Notice of Availability of the draft SWEIS will be announced by the Environmental Protection Agency and NNSA in the Federal Register. The Notice of Availability will then be published on the NNSA NEPA Reading Room website.

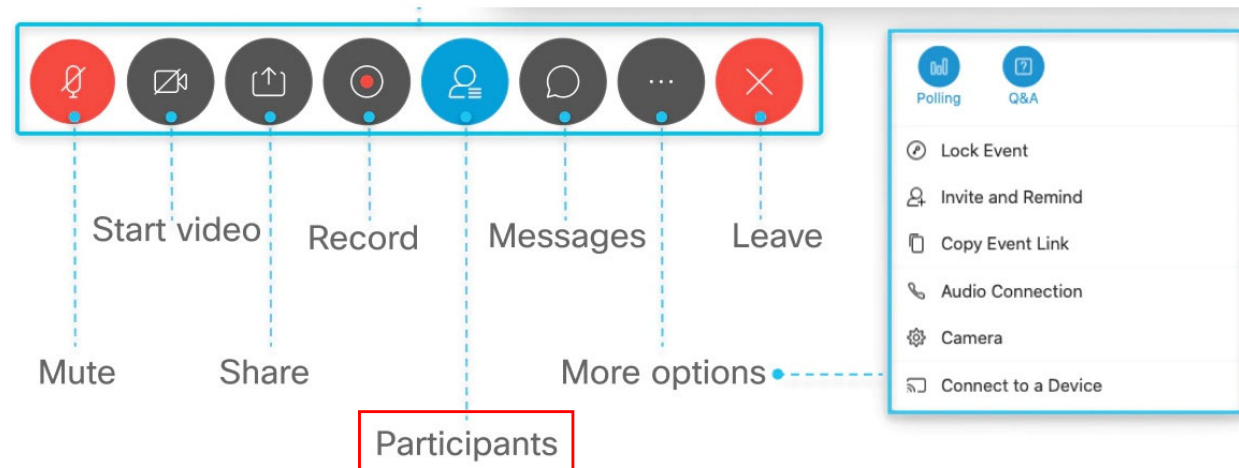
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