



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 5, 2025

**LONG MOTT ENERGY, LLC - PLAN FOR A GENERAL AUDIT OF THE LONG MOTT
GENERATING STATION CONSTRUCTION PERMIT APPLICATION
(EPID NO. L-2025-CPS-0000)**

Applicant: Long Mott Energy, LLC

Applicant Address: 530 Gaither Road, Suite 700
Rockville, MD 20850

Plant Name and Units: Long Mott Generating Station (4 units)

Docket No.: 50-614

Background:

By letter dated March 31, 2025, (Agencywide Documents Access and Management System (ADAMS) Package Accession No. ML25090A057) Long Mott Energy, LLC (LME), submitted a construction permit (CP) application and corresponding preliminary safety analysis report (PSAR) to the U.S. Nuclear Regulatory Commission (NRC) staff for a reactor facility pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR), Part 50, "Domestic Licensing of Production and Utilization Facilities," and section 103, "Commercial Licenses," of the Atomic Energy Act of 1954, as amended. The facility, referred to as Long Mott Generating Station (LMGS), would be built in Calhoun County, Texas. On May 12, 2025 (ML25115A247), the NRC staff accepted LME's CP application for docketing. A notice of the acceptance for docketing was published in the *Federal Register* on May 2, 2025 (90 FR 18874). The NRC staff is conducting a detailed review of the LMGS CP application. This regulatory audit is intended to assist the NRC staff in its review of the LMGS CP application.

Purpose:

The purpose of this audit is for the NRC staff to gain a better understanding of the LMGS CP application by providing an opportunity to review and discuss the material used to support statements or conclusions in the PSAR. The audit is expected to facilitate a more effective and efficient review by allowing the NRC staff to review and discuss the supporting material with the objective of improving communication and eliminating unnecessary requests for additional information. If the NRC staff identifies information that is needed to support a regulatory finding pertaining to the review of the CP application, LME will need to submit that information on the application docket.

Enclosure

Regulatory Audit Basis:

The basis for the audit are the regulations in 10 CFR pertinent to the NRC staff's review of the CP application, including 10 CFR 50.34, "Contents of applications; technical information," 10 CFR 50.35, "Issuance of construction permits," 10 CFR 100.20, "Factors to be considered when evaluating sites," 10 CFR 100.21, "Non-seismic site criteria," and 10 CFR 100.23, "Geologic and seismic siting criteria."

Regulatory Audit Scope:

This audit will focus on information provided by LME on the electronic reading room (eRR) and during meetings and interactions with LME. This audit will provide the NRC staff with information related to the review of the LMGS CP application. Specific objectives and topics to be discussed will be identified in subsequent correspondence, such as an email, and dates will be proposed for discussion of the information.

Information and Other Material Necessary for the Regulatory Audit:

LME should be prepared to provide documents, reports, calculations, computer code verification, and other material, as applicable, supporting the analyses documented in the PSAR. The NRC staff may request that LME make these additional materials available in the eRR or during a site visit, if one is conducted. Information requests and discussion items will be provided separately throughout the audit.

Team Assignments:

Adrian Muñiz	Senior (Sr.) Project Manager, Audit Lead
Timothy Drzewiecki	Sr. Reactor Systems Engineer, Lead Technical Reviewer
Denise McGovern	Sr. Project Manager, Audit Support
Ondra Dukes	Project Manager, Audit Support
Richard Rivera	Project Manager, Audit Support
Brad Baxter	Security Specialist
Brian Zaleski	Fitness for Duty Specialist
Charles Moulton	Fire Protection Engineer
Thinh Dinh	Fire Protection Engineer
Elizabeth McAndrews-Benavides	Reactor Systems Engineer – Cybersecurity
Sheila Ray	Sr. Electrical Engineer
Calvin Cheung	Electronics Engineer
Dinesh Taneja	Sr. Electronics Engineer
Jorge Cintrón-Rivera	Electrical Engineer
Amitiva Ghosh	Physical Scientist – Hazards Analyst
Carol Dye	Geologist
Jason White	Physical Scientist – Meteorologist
Jenise Thompson	Geologist
Nebiyu Tiruneh	Hydrologist
Rosalynn Wang	Geophysicist
Kosmas Lois	Financial Analyst
Garry Armstrong	Reactor Operations Engineer – Human Factors
Jeff Correll	Reactor Engineer – Examiner
Andrea Keim	Reactor Operations Engineer – QA Inspector
Ryan Ruppert	Information Security Specialist

Kenneth Mott	Emergency Preparedness Specialist
Travis Leach	Security Specialist
Vladimir Graizer	Seismologist
Kristina Banovac	Project Manager
Phil O'Bryan	Sr. Reactor Operations
Clair Song	Mechanical Engineer
Ian Jung	Sr. Reliability and Risk Analyst
Kristy Bucholtz	Nuclear Engineer
Matthew Gordon	Materials Engineer
Margaret Audrain	Materials Engineer
Robert Roche-Rivera	Sr. Civil Engineer – Structural
Tracy Radel	Sr. Nuclear Engineer
Zachary Gran	Reactor Scientist – Severe Accidents
John Matrachisia	Nuclear Engineer
Santosh Bhatt	Sr. Nuclear Engineer
Steve Jones	Sr. Safety and Plant Systems

Additional audit team members will be added, as needed.

Logistics:

Entrance Meeting: June 10, 2025

Exit Meeting: September 2026; precise date, and time are to be determined.

The audit will follow the guidance in the Office of Nuclear Reactor Regulation's (NRR) Office Instruction LIC-111, Revision 2, "Regulatory Audits," (ML24309A281). Audit meetings will take place mainly in a virtual format, using Microsoft Teams or other similar platform. Audit meetings will be scheduled on an as needed basis and, if applicable, once the NRC staff has had the opportunity to review documents placed in the eRR. If a site visit is needed, review topics will be provided to LME, and mutually agreeable dates will be established. The audit will begin in June 2025, and continue for approximately 16 months, with activities occurring intermittently during that period. Interim status report(s) on topics being addressed by the audit will be provided to LME.

The audit period may be reduced or extended, depending on the progress made by the NRC staff and LME in addressing audit questions. Additional audit activities may be planned as necessary to support the NRC staff's understanding of information needed to complete the review of the LMGS CP application.

To improve the efficiency of the audit, LME and the NRC staff discussed the use of an eRR, established by LME, that would allow the NRC staff read-only access to the technical information provided by LME. Use of the eRR is acceptable provided that LME establishes measures to limit access to specific NRC staff (e.g., based on NRC email addresses or the use of passwords which will only be assigned to the NRC staff directly involved in the audit on a need-to-know basis), and to make the documents view-only (i.e., prevent the NRC staff from saving, copying, downloading, or printing any documents). The conditions associated with the eRR must be maintained throughout the audit process. The NRC audit project managers will provide LME with the names of the NRC staff audit team that will require access to the eRR.

Special Requests:

None.

Deliverables:

The NRC staff will issue an audit summary within 90 days after the exit meeting. The summary will be publicly available in ADAMS.

If you have any questions related to this audit, please contact Adrian Muñoz at 301-415-4093 or via email at Adrian.Muniz@nrc.gov.

Date: June 5, 2025



Signed by Philpott, Stephen
on 06/05/25

Stephen Philpott, Acting Chief
Advanced Reactor Licensing Branch 2
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

Docket No.: 50-614

cc: Long Mott Energy, LLC via GovDelivery
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jmaddocks@x-energy.com

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NRR-106

OFFICE	NRR/DANU/UAL2:PM	NRR/DANU/UAL2:PM	NRR/DANU/UAL2:LA	NRR/DANU/UAL2:BC (A)
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DATE	05/09/2025	05/29/2025	06/04/2025	06/05/2025

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