



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

**OKLO, INC. – PRINCIPAL DESIGN CRITERIA TOPICAL REPORT AUDIT PLAN
(EPID NO. L-2025-TOP-0028)**

Applicant: Oklo, Inc.

Applicant Address: 3190 Coronado Dr.
Santa Clara, CA 95054

Plant Name(s) and Unit(s): Oklo Aurora Powerhouse

Project No.: 99902095

Background:

By letter dated August 6, 2025, Oklo, Inc. (Oklo) submitted a topical report (TR) titled “Principal Design Criteria [(PDC)] for the Aurora Powerhouse” (Agencywide Documents Access and Management System (ADAMS) Accession No. ML25220A124) for U.S. Nuclear Regulatory Commission (NRC) staff review. On August 25, 2025, the NRC staff found that the TR contains sufficient information to begin its detailed technical review of the TR (ML25232A123).

This TR provides information on the development of PDC for Oklo’s Aurora Powerhouse based on Regulatory Guide (RG) 1.232, “Guidance for Developing Principal Design Criteria for Non-Light Water Reactors,” Revision 0 (ML17325A611). Oklo is seeking NRC staff approval that the proposed PDC meet the criteria within Title 10 of the *Code of Federal Regulations* (10 CFR) 52.79, “Contents of applications; technical information in final safety analysis report [(FSAR)],” paragraph (a)(4)(i), so the TR may be referenced in future licensing applications for Aurora powerhouses.

Purpose:

The purpose of this audit is for the NRC staff to gain a better understanding of the PDC TR by reviewing and discussing the material used to support statements or conclusions in the TR. The audit is expected to facilitate a more effective and efficient review by allowing the NRC staff to review and discuss 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 finding, Oklo will need to submit that information on the docket.

Regulatory Audit Basis:

The basis for the audit is 10 CFR 52.79(a)(4)(i), which requires that each application for a combined operating license (COL) contains an FSAR with facility design information including PDC.

Regulatory Audit Scope:

The audit team will review documentation that provides supporting information for Oklo's PDC TR. The audit scope consists of all sections of the TR.

Information and Other Material Necessary for the Regulatory Audit:

The NRC staff requests that the following documents be made available for audit. The NRC staff may request additional documents as needed:

- Any failure modes and effects analyses or hazard analyses that have been performed for the intermediate heat transport system.

Audit questions are included in appendix A to this audit plan. Additional questions may be asked during the review.

Team Assignments:

Alex Siwy, Senior Nuclear Engineer
 Ethan Tievy, General Engineer
 Donna Williams, Senior Project Manager
 Cayetano Santos, Senior Project Manager
 Katie Wagner, Project Manager
 Jacqueline Tulip, Project Manager

Additional audit team members may be added as needed.

Logistics:

Entrance Meeting: September 19, 2025, estimated and subject to change
 Exit Meeting: October 17, 2025, estimated and subject to change

The NRC staff requests that all documents in the audit scope be provided by Oklo on an online reference portal established by Oklo. Use of the online reference portal is acceptable provided that Oklo implements measures to limit access to specific NRC staff (e.g., based on NRC e-mail addresses or the use of passwords that 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 NRC staff from saving, copying, downloading, or printing any documents). The conditions associated with the online reference portal must be maintained throughout the audit process. The NRC staff who should initially be granted access to the portal are listed in the "Team Assignments" section of this audit plan. The NRC project managers for the audit will provide Oklo with the names of additional NRC staff who should be granted access.

The NRC staff requests that Oklo make their technical staff and subject matter experts available to answer questions during the audit.

The audit will follow the guidance in the Office of Nuclear Reactor Regulation (NRR) Office Instruction LIC-111, "Regulatory Audits" (ML19226A274). Audit meetings will take place primarily in a virtual format, using Microsoft Teams. Audit meetings will be scheduled on an as-needed basis after the entrance meeting and once the NRC staff has reviewed the documents placed in the online reference portal. If a site visit is needed, review topics will be provided to Oklo, and mutually agreeable dates will be established.

Special Requests:

None.

Deliverables:

At the completion of the audit, the audit team will issue an audit summary within 90 days after the exit meeting but will strive for an earlier issuance. The audit summary will be declared and entered as an official agency record and be made publicly available for viewing through ADAMS.

If you have questions about this audit, please contact me at 301-415-5243 or by email at Jacqueline.Tulip@nrc.gov.

Sincerely,

JACQUELINE
TULIP

Digitally signed by
JACQUELINE TULIP
Date: 2025.09.11 13:53:03
+04'00'

Jacqueline Tulip, Project Manager
Advanced Reactor Licensing Branch 1
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

Project No.: 99902095

Enclosure:
As stated

Cc: Oklo Powerhouse via GovDelivery w/o Enclosure

SUBJECT: OKLO, INC. – PRINCIPAL DESIGN CRITERIA TOPICAL REPORT AUDIT
PLAN (EPID NO. L-2025-TOP-0028) DATED: SEPTEMBER 11, 2025

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ADAMS Accession No.:

Package: ML25251A148

Audit Plan: ML25251A229

Enclosure: ML25251A228

OFFICE	NRR/DANU/UAL1:PM	NRR/DANU/UAL1:LA	NRR/DANU/UTB2:BC
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OFFICE	NRR/DANU/UAL1:BC	NRR/DANU/UAL1:PM	
NAME	JBorromeo	DWilliams	
DATE	9/11/2025	9/11/2025	

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