



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

**OKLO AURORA – STEP 1 STRUCTURES, SYSTEMS, AND COMPONENTS
CLASSIFICATION REQUEST FOR ADDITIONAL INFORMATION
AUDIT PLAN (EPID L-2020-NEW-0004)**

APPLICANT INFORMATION

Applicant: Oklo Inc.

Applicant Address: 230 E Caribbean Dr. Sunnyvale, CA 94089

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

Docket No(s).: 52-0049

Background:

By letter dated March 11, 2020 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20075A000), Oklo Power LLC (Oklo), submitted a combined license (COL) application for one micro-reactor to be located at the Idaho National Laboratory located in Idaho. This proposed plant is to be designated as the Aurora. By letter dated June 5, 2020 (ADAMS Accession No. ML20149K616), the U.S. Nuclear Regulatory Commission (NRC) informed Oklo of their decision to accept the application for docketing and that a two-step approach will be used in order to gain alignment on four key safety and design aspects of the licensing basis prior to establishing a schedule for the licensing review. One of those key safety and design aspects is the classification of structures, systems, and components (SSCs). As part of the Step 1 review, the NRC staff drafted Request for Additional Information (RAI) 9775 (ADAMS Accession No. ML20267A529) to identify the information needed to support review of the SSC classification. The NRC staff's audit follows the guidance in Nuclear Reactor Regulation Office Instruction LIC-111, "Regulatory Audits," Revision 1 (ADAMS Accession No. ML19226A274).

Purpose:

The purpose of this audit is to gain a better understanding of the basis for the information in the Oklo application for SSC classification, identify additional information that may be needed on the docket, and potentially formulate additional RAIs to aid in the closure of Step 1.

Regulatory Audit Basis:

The bases for this audit are as stated in RAI 9775.

Regulatory Audit Scope or Methodology

This regulatory audit is to understand the level of quality that is applied to the design, fabrication, construction, and testing of SSCs that are relied upon to remain functional during and following design basis events and those SSCs relied on for defense in depth.

Information and Other Material Necessary for the Regulatory Audit

The staff requests to review documents implementing the Quality Assurance Program (QAP), design documents, and test reports for SSCs that are relied upon to function during and following design basis events and those SSCs relied on for defense in depth to determine the quality aspects that are specified. Quality aspects include, but are not limited to, codes and standards to which SSCs are designed, fabricated, constructed, and tested and quality assurance requirements specified via the QAP.

Team Assignments

Jan Mazza	Project Manager, NRR/DANU/UARL – overall audit coordination
Bill Reckley	Sr. Project Manager. NRR/DANU/UARP, lead - general audit coordination and audit summary development
Tim Drzewiecki	Reactor Systems Engineer, NRR/DANU/UART – review of implementing documents and design documents for quality aspects
Ian Jung	Sr. Reliability and Risk Analyst, NRR/DANU/UART – review of implementing documents and design drawings with concentration on I&C and electrical systems
Tim Lupold	Sr. Mechanical Engineer, NRR/DANU/UART – review of implementing documents and design drawings concentrating on major mechanical components
Antonio Barrett	Reactor Systems Engineer, NRR/DANU/UART – review of implementing documents and design drawings concentrating on reactor core components
Andrew Yeshnik	Materials Engineer, NRR/DANU/UART – review of implementing documents and design drawings concentrating on material quality aspects of major mechanical components

Logistics

Entrance Meeting	October 2, 2020 [Time TBD]
Exit Meeting	October 16, 2020 [Time TBD]

Audit meetings take place in a virtual format, using Microsoft Teams, or in a platform requested by the applicant. If needed, audit meetings will take place occasionally on dates and at times agreed to with the applicant.

Special Requests

The NRC staff requests that documents be made available to the staff via an electronic media such as BOX.

Deliverables

At the completion of the audit, the audit team will issue the regulatory audit summary within 90 days after the exit meeting but will strive for a shorter duration.

References

Oklo Inc. Quality Assurance Program Description (QAPD): Design and Construction, OKLO-2019-14-NP, Rev. 0 Dated June 30, 2019 (ADAMS Accession No. ML19178A069)

U.S. Nuclear Regulatory Commission Final Safety Evaluation for Oklo, Inc. Topical Report OKLO-2019-14-NP, Rev 1, "Quality Assurance Program Description – Design and Construction" (EPID NO. L-2019-TOP-0024) Dated August 11, 2020 (ADAMS Accession No. ML20205L415)

Date: October 1, 2020

/RA/

Benjamin G. Beasley, Chief
Advanced Reactor Licensing Branch
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

cc: Distribution via list serv

SUBJECT: AURORA – STEP 1 STRUCTURES, SYSTEMS, AND COMPONENTS
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AUDIT PLAN (EPID L-2020-NEW-0004) DATED: OCTOBER 1, 2020

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ADAMS Accession No. ML20275A060

OFFICE	NRR/DANU/UARL/PM*	NRR/DANU/UARL/LA*	NRR/DANU/UART/BC*
NAME	JMazza	SLent	MHayes
DATE	09/29/2020	10/01/2020	09/29/2020
OFFICE	NRR/DANU/UARL/BC*		
NAME	BBeasley		
DATE	10/01/2020		

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