



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

February 1, 2024

MEMORANDUM TO: William Jessup, Chief  
Advanced Reactor Licensing Branch 1  
Division of Advanced Reactors and Non-power Production and  
Utilization Facilities  
Office of Nuclear Reactor Regulation

FROM: Donna Williams, Senior Project Manager /RA/  
Advanced Reactor Licensing Branch 1  
Division of Advanced Reactors and Non-power Production and  
Utilization Facilities  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE JUNE 27, 2023, THROUGH JUNE 28, 2023,  
PARTIALLY CLOSED PUBLIC MEETING TO DISCUSS SAFETY  
CLASSIFICATION FOR THE OKLO ADVANCED REACTOR  
DESIGN (EPID L-2023-LRO-0044)

**Meeting Information:**

Applicant: Oklo, Inc. (Oklo)

Project No.: 99902095

Public Meeting Notice Agencywide Documents Access and Management System (ADAMS)  
Accession No.: ML23164A132

Applicant Presentation Slides.: ML23186A084 and ML23270B984 (proprietary)

Meeting Attendees: See Enclosure 1 for list of meeting attendees.

CONTACT: Donna Williams, NRR/DANU/UAL1  
301-415-1322

Enclosure 1

**Meeting Summary:**

The U.S. Nuclear Regulatory Commission (NRC) staff conducted the meeting in accordance with NRC Management Directive 3.5, "Attendance at NRC Staff-Sponsored Meetings" (ML21180A271). Highlights from the meeting included the following:

- The NRC staff and Oklo discussed Oklo's planned approach to safety classification for its advanced reactors. As shown in Oklo's publicly available slide deck (ML23186A084), the stated goals for the meeting were to:
  - Solicit feedback from the NRC staff on Oklo's approach to safety classification,
  - Demonstrate how Oklo's safety classification approach is an improvement over the current approach,
  - Provide a detailed case study implementation of Oklo's safety classification process, and
  - Show how programmatic controls are the building blocks that support design commitments and design bases to provide a clear licensing basis for review and oversight of Oklo's reactor facilities.
- In April 2023, Oklo shared a draft of a white paper (WP) that provided an overview of its safety classification approach (ML23193A445). On April 21, 2023, the NRC staff met with Oklo to discuss its approach to safety classification. The NRC staff and Oklo agreed that another meeting would be scheduled to discuss the NRC staff's feedback. On June 2, 2023, Oklo formally submitted the WP entitled, "Safety Classification Overview" (ML23153A204). This white paper was discussed at the June 27, 2023, meeting.
- During the safety classification overview portion of the meeting, Oklo presented a case study to provide an example of how its approach to safety classification would be implemented. The case study was focused on a single bounding event (loss of heat sink); full application of the safety classification process would consider all bounding events identified by Oklo's Maximum Credible Accident methodology.
- On June 2, 2023, Oklo shared a draft WP entitled "Development of Regulatory Controls: Shutdown Case Study." This draft WP superseded a previous draft that had been shared with the NRC staff in April 2023. At the June 28, 2023, meeting, the NRC staff discussed its feedback on the most recent revision of the draft WP.
- During the meeting discussion, the NRC staff conveyed that, in general, it does not believe it would be safe for a reactor to be in a state in which it can potentially become critical again after shutdown indefinitely. The reactor must be subcritical and the definition of subcritical should be adhered to.
- The NRC staff stated that, if structures, systems, and components (SSCs) are not classified as safety related, the NRC staff would not expect these SSCs to be credited in safety analyses.

- The NRC staff suggested that a license commitment related to control rod insertion time may be one way to monitor the effectiveness of control rods and identify whether performance is degrading over time.
- Oklo proposed a follow-up discussion on safety classification, particularly on the NRC staff's preliminary feedback related to Section 5 of the draft WP on regulatory controls.

No regulatory decisions were made as a result of this meeting.

Enclosures:

1. List of Attendees
2. Meeting Notes (proprietary)

cc: Oklo Powerhouse via GovDelivery

Enclosure 2 to this letter contain proprietary information. When separated from Enclosure 2, this letter is DECONTROLLED.

SUBJECT: SUMMARY OF THE JUNE 27, 2023, THROUGH JUNE 28, 2023, PARTIALLY  
CLOSED PUBLIC MEETING TO DISCUSS SAFETY CLASSIFICATION FOR THE  
OKLO ADVANCED REACTOR DESIGN (EPID L-2023-LRO-0044)  
DATED: FEBRUARY 1, 2024

**DISTRIBUTION:**

RidsNrrDanuUal1 Resource  
RidsNrrDanu Resource  
MShams, NRR  
WJessup, NRR  
CdeMessieres, NRR  
RAnzalone, NRR  
JSchaperow, NRR  
MHart, NRR  
HPhan, NRR  
MGahzali, NRR  
ASiwy, NRR  
ZGran, NRR  
MGordon, NRR  
MAudrain, NRR

**ADAMS Accession No.:**  
**Pkg ML24016A239**  
**Ltr ML24016A257**  
**Enc 2 ML24016A247**

**NRR-106**

<b>OFFICE</b>	NRR/DANU/UAL1: PM	NRR/DANU/UAL1: BC	NRR/DANU/UAL1: PM
<b>NAME</b>	DWilliams	WJessup	DWilliams
<b>DATE</b>	01/09/24	1/23/24	2/1/24

**OFFICIAL RECORD COPY**

## List of Meeting Attendees

### SUMMARY OF THE PARTIALLY CLOSED PUBLIC MEETING TO DISCUSS SAFETY CLASSIFICATION FOR THE OKLO ADVANCED REACTOR DESIGN June 27-28, 2023

Name	Organization
Donna Williams	U.S. Nuclear Regulatory Commission (NRC)
Reed Anzalone	NRC
Jason Schaperow	NRC
Mohsin Ghazali	NRC
Michelle Hart	NRC
Alex Siwy	NRC
Hanh Phan	NRC
Candace de Messieres	NRC
Zach Gran	NRC
Matthew Gordon	NRC
Andrew Profitt	NRC
Meg Audrain	NRC
Trace Orf	Oklo, Inc. (Oklo)
Ross Moore	Oklo
Kellen McCarroll	Oklo
Alex Renner	Oklo
Alan Smith	Oklo
Patrick Everett	Oklo
Caroline Cochran	Oklo
John Hanson	Oklo