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

August 10, 2023

Mr. Ross Moore Director of Regulatory Affairs Oklo Inc. 3190 Coronado Dr. Santa Clara, CA 95054

SUBJECT: OKLO INC. - U.S. NUCLEAR REGULATORY COMMISSION STAFF

FEEDBACK AND OBSERVATIONS ON THE OKLO WHITE PAPER FOR PRE-APPLICATION ENGAGEMENT, "SOURCE TERM MODELING

OVERVIEW"

Dear Mr. Moore:

By letter dated April 21, 2023 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML23111A297), Oklo Inc. (Oklo) submitted a white paper (WP), "Source Term Modeling Overview," for the U.S. Nuclear Regulatory Commission (NRC) staff's review. This WP describes Oklo's modeling approach for performing source term analysis, including sources of radionuclides produced during operation, modeling tools used in the source term analysis, and experimental data that support the modeling approaches. Oklo also provided specific questions that it would like the NRC staff to address in its feedback. On March 29, 2023 (ML23171B120), the NRC staff met with Oklo to discuss a draft version of the WP that was shared with the NRC staff prior to the meeting. Oklo addressed the NRC staff's meeting feedback in its WP submittal. The enclosure to this letter provides the NRC staff's feedback and observations for Oklo to consider as part of any future submittal that may address this topic.

The enclosure to this letter contains proprietary information. When separated from the enclosure, this document is DECONTROLLED.

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If you have questions regarding this matter, please contact Donna Williams at (301) 415-1322 or via email at Donna.Williams@nrc.gov.

Sincerely,

Signed by Jessup, William on 08/10/23

William Jessup, Chief 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

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SUBJECT: OKLO INC. - U.S. NUCLEAR REGULATORY COMMISSION STAFF

FEEDBACK AND OBSERVATIONS REGARDING OKLO WHITE PAPER ON

SOURCE TERM MODELING OVERVIEW DATED: AUGUST 10, 2023

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