



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

April 4, 2019

MEMORANDUM TO: John P. Segala, Chief
Advanced Reactor and Policy Branch
Division of Safety Systems, Risk Assessment and
Advanced Reactors
Office of New Reactors

FROM: Jan M. Mazza, Project Manager */RA/*
Advanced Reactor and Policy Branch
Division of Safety Systems, Risk Assessment and
Advanced Reactors
Office of New Reactors

SUBJECT: SUMMARY OF FEBRUARY 26-28, 2019, CLOSED MEETING
WITH THE U.S. NUCLEAR REGULATORY COMMISSION
STAFF AND OKLO, INC., TO DISCUSS OKLO, INC., DRAFT
GUIDE 1353 PILOT REPORT

On February 26-28, 2019, members of the Office of New Reactors met with Oklo, Inc (Oklo) at their offices in Sunnyvale, CA. The purpose of the meeting was to gain insights on Oklo's pilot of the U.S. Nuclear Regulatory Commission's (NRC) Draft Regulatory Guide (DG)-1353, "Guidance for a Technology-Inclusive Risk-Informed and Performance-Based Approach to Inform the Content of Applications for Licenses, Certifications, or Approvals for Non-Light Water Reactors." The discussions included an overview of the safety case of Oklo's fast micro reactor design and its use of inherent safety features, the use of Dynamic Probabilistic Risk Assessment (DPRA), external hazards, fuel performance, siting and environmental issues, and staffing for security and for controlling the plant. The NRC staff gained a better understanding of Oklo's safety case and its application of the DPRA in implementing the pilot. The NRC staff also gained an understanding of the overall status of the design and analysis work. Oklo plans to update its licensing project plan and will include its future pre-application engagement activities.

The redacted versions of the Oklo DG-1353 Pilot Report, and the NRC's Comment Matrix for the Oklo DG-1353 Pilot Report are ML19038A473, and ML19079A387. These documents are located in the NRC Agencywide Documents Access and Management System (ADAMS). ADAMS is the system that provides text and image files of NRC's public documents. Documents are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room staff at (800) 397-4209 or (301) 415-4737, or pdr@nrc.gov.

CONTACT: Jan M. Mazza, NRO/DSRA
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SUMMARY OF FEBRUARY 26-28, 2019, CLOSED MEETING WITH THE U.S. NUCLEAR REGULATORY COMMISSION STAFF AND OKLO, INC., TO DISCUSS OKLO, INC., DRAFT GUIDE 1353 PILOT REPORT – DATED April 4, 2019

Docket No.: 99902046

Enclosures:

1. Agenda
2. List of Attendees

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JMazza, NRO

JSegala, NRO

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ADAMS ACCESSION No.: ML19085A398

NRC-002

OFFICE	NRO/DSRA	NRO/DSRA
NAME	JMazza	JSegala
DATE	04/04/2019	04/04/2019

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AGENDA

Oklo, Inc. (Oklo) Closed Meeting with the U.S. Nuclear Regulatory Commission (NRC)

Discussions Oklo Draft Guide (DG)-1353 Pilot

Tuesday February 26 – Thursday February 28, 2019

230 E Caribbean Drive Sunnyvale, CA

Date/Time	Topic
FEBRUARY 26, 2019	
9:00am-10:00am	Introductions, review agenda, Recap of discussion/slides presented in December at NRC.
10:00am – 11:00am	Presentation on Oklo Design Overview
11:00am-12:00am	High-level presentation on Oklo PRA modeling and use of Dynamic PRA (DPRA) for the DG-1353 Pilot
12:00pm-1:00pm	Lunch
1:00pm-4:00pm	<ul style="list-style-type: none">• Demo of DPRA• Modeling toolsets implicit in the DPRA analysis
4:00pm-5:00pm	Wrap -up
FEBRUARY 27, 2019	
9:00am – 12:00pm	<ul style="list-style-type: none">• Siting topics from DG-1353 Pilot• Security topics from DG-1353 Pilot
12:00pm-1:00pm	Lunch
1:00pm-4:00pm	<ul style="list-style-type: none">• Staffing and Control Room Topics from DG-1353 Pilot• Impact of External Hazards on the DG-1353 Pilot• Additional topics highlighted during the first two days
4:00pm-5:00pm	Wrap -up

FEBRUARY 28, 2019	
9:00am-12:00pm	Contents of DG-1353 Pilot Document Discussion
12:00pm-1:00pm	Lunch
1:00pm-2:00pm	Contents of DG-1353 Pilot Document Discussion
3:00pm-4:00pm	Wrap-up

ATTENDANCE LIST

Oklo, Inc. Closed Meeting with the U.S. Nuclear Regulatory Commission (NRC)

Discussions Oklo Draft Guide (DG)-1353 Pilot

Tuesday February 26 – Thursday February 28, 2019

230 E Caribbean Drive Sunnyvale, CA

Name	Affiliation
Hayes, Michelle	NRC/NRO
Travis, Boyce	NRC/NRO
Mazza, Jan	NRC/NRO
Segala, John	NRC/NRO
Bill Reckley	NRC/NRO
Marty Stutzke	NRC/NRO
Hahn Phan	NRC/NRO
Cochran, Caroline	Oklo, INC.
DeWitte, Jacob	Oklo, INC.
Richard, Joshua	Oklo, INC.
Redfoot, Emma	Oklo, INC.
Popova, Alex	Oklo, INC.