



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

February 21, 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 **IRA**
Advanced Reactor and Policy Branch
Division of Safety Systems, Risk Assessment and
Advanced Reactors
Office of New Reactors

SUBJECT: SUMMARY OF DECEMBER 11, 2018, CLOSED MEETING WITH
THE U.S. NUCLEAR REGULATORY COMMISSION STAFF AND
OKLO, INC., TO DISCUSS OKLO, INC., DG-1353 PILOT
REPORT

On December 11, 2018, a closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives from Oklo, Inc. (Oklo) at the NRC offices at One White Flint North, 11555 Rockville Pike, North Bethesda, Maryland 20852, Room 3-B04. The purpose of this closed meeting was for Oklo personnel to engage the NRC on how Oklo implemented DG-1353, "Guidance for a Technology-Inclusive, Risk-Informed, and Performance-Based Approach to Inform the Content Applications for Licenses, Certifications, and Approvals for Non-Light Water Reactors." In preparation for this meeting, Oklo submitted the "DG-1353 Pilot Report," on October 31, 2018. Also, on December 3, 2018, Oklo released "DG-1353 Lessons Learned," to the public for discussions with the industry on the Licensing Modernization Project (LMP). NRC staff reviewed both of these documents in preparation for the closed meeting.

After the opening introductions, Jason Custer from Alaska Power and Telephone, who attended the meeting as Oklo's guest, provided remarks summarizing the off-grid power needs for Alaska's small and remote communities. Members of the Oklo team then led a discussion on lessons learned regarding DG-1353 and provided a summary of the safety case for Oklo's design. The NRC staff asked Oklo for clarification in a number of areas including the use of Dynamic Probabilistic Risk Assessment, treatment of uncertainties in the frequency-consequence results, treatment of passive structures, systems and components, and Oklo's implementation of task 5a of the LMP, "Identify Required Safety Functions." Overall the discussion was valuable to both Oklo and NRC. Oklo gained a better understanding of the areas of focus and level of detail the NRC would need to review the Oklo design. The NRC gained more detailed information on the Oklo design and safety case.

The meeting agenda and list of meeting attendees are included in Enclosures 1 and 2. The Accession Number for the meeting notice and the non-proprietary version of the Oklo "DG-1353 Pilot Report," and DG-1353, "Guidance for a Technology-Inclusive, Risk-Informed, and Performance-Based Approach to Inform the Content Applications for Licenses, Certifications,

and Approvals for Non-Light Water Reactors,” are ML18332A193, and ML19038A473, and ML18264A093. 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 (PDR) staff at (800) 397-4209 or (301) 415-4737, or pdr@nrc.gov.

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(301) 415-0498

SUMMARY OF DECEMBER 11, 2018, CLOSED MEETING WITH THE U.S. NUCLEAR REGULATORY COMMISSION STAFF AND OKLO, INC., TO DISCUSS OKLO, INC., DG-1353 PILOT REPORT – February 21, 2019

Docket No.: 99902046

Enclosures:

- 1. Agenda
- 2. List of Attendees

DISTRIBUTION:

Public
JMazza, NRO
JSegala, NRO
RidsNroDsra Resource
RidsOgcMailCenter
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ADAMS ACCESSION No.: ML19050A311

NRC-002

OFFICE	NRO/DSRA	NRO/DSRA
NAME	JMazza	JSegala
DATE	02/21/2019	02/21/2019

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AGENDA

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

DG-1353 PILOT REPORT

Tuesday December 11, 2018

One White Flint 3-B04

Time	Topic	Lead
8:30 am – 9:00 am	Opening	NRC/Oklo, Inc.
9:00am – 10:00am	<u>Oklo Discussion</u> <ul style="list-style-type: none">• Lessons learned regarding DG-1353• Safety case for Oklo's design	Oklo, Inc.
10:00am – 10:15am	Break	
10:15am – 12:00pm	NRC Comments/Questions on Oklo, Inc. Implementation of DG-1353	NRC.
12:00pm	Meeting Adjourn	All

ATTENDANCE LIST

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

OKLO INC., DG-1353 PILOT REPORT

Tuesday December 11, 2018

One White Flint North 03-B04

Name	Affiliation
Bajorek, Steve	NRC/RES
Hammelman, James	NRC/NMSS
Hart, Michelle	NRC/NRO
Mazza, Jan	NRC/NRO
Schmidt, Jeffrey	NRC/NRO
Segala, John	NRC/NRO
Amy Cabbage	NRC/NRO
Bill Reckley	NRC/NRO
Bob Fitzpatrick	NRC/NRR
Andrew Yeshnik	NRC/NRO
Marty Stutzke	NRC/NRO
Hahn Phan	NRC/NRO
Joe Ashcraft	NRC/NRO
John Monninger	NRC/NRO
Kevin Coyne	NRC/NRO
Tuan Le	NRC/NRO
Steven Lynch	NRC/NRR
Ryan Nolan	NRC/NRO
Tim Lupold	NRC/NRO
Tim Drzewiecki	NRC/NRO
Boyce Travis	NRC/NRO
Imtiaz Madni	NRC/NRO
Ishmael Garcia	NRC/NRO

Zach Gran	NRC/NRO
Michelle Hayes	NRC/NRO
Stu Magruder	NRC/NRO
Donald Palmrose	NRC/NRO
Cochran, Caroline	Oklo, INC.
DeWitte, Jacob	Oklo, INC
Jason Custer	Alaska Power & Telephone
John Hanson	Oklo, INC
Patrick Everett	Oklo, INC
Samuel Doane	Oklo, INC
Emma Redfoot	Oklo, INC
Richard, Joshua	Oklo, INC.