



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

October 26, 2021

MEMORANDUM TO: Dennis C. Morey, Chief
Licensing Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

FROM: Ngola Otto, Project Manager */RA/*
Licensing Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF SEPTEMBER 15, 2021, PARTIALLY CLOSED
MEETING BETWEEN FRAMATOME INC. AND THE U.S. NUCLEAR
REGULATORY COMMISSION ON INCREASED BURNUP TOPICAL
REPORT PRE-SUBMITTAL DISCUSSION REGARDING FUEL
FRAGMENTATION RELOCATION AND DISPERSAL

On September 15, 2021, the U.S. Nuclear Regulatory Commission (NRC) staff held a partially closed teleconference meeting via Microsoft Team (Open Session) and WebEx (Closed Session) with representatives from Framatome Inc. (Framatome). The purpose of the meeting was for NRC staff and Framatome representatives to conduct pre-submittal discussions on increased burnup topical report (TR) regarding Fuel Fragmentation, Relocation and Dispersal (FFRD), Criticality, and Core Coolability. The meeting was noticed on September 1, 2021, and is available in the Agencywide Documents Access and Management System (ADAMS) Accession No. ML21244A343.

During the open session, Framatome representatives provided a list of increased burnup related pre-submittal meetings, a background of the applicable advanced codes and methods, scope of the future increased burnup TR submittal, and an introduction on the topics that would be discussed during the closed session, which included core cooling and criticality following FFRD. There were no questions from members of the public during the open session. During the closed session, Framatome representatives and NRC staff discussed Framatome's presentation on core coolability background, approach, roadmap, and next steps. The Framatome representatives and NRC staff also discussed criticality background information, assumptions, methodology, sensitivity studies, conclusions, and next steps. Framatome intends to have further interactions with NRC as its TR is developed.

A list of the attendees is enclosed. The Framatome presentation materials, including this meeting summary, can be found at ADAMS Package Accession No. ML21256A006.

Docket No. 99902041

Enclosure: As stated

CONTACT: Ngola Otto, NRR/DORL
301-415-6695

List of Attendees

Partially Closed Meeting with Framatome Inc. and the Nuclear Regulatory Commission (NRC)
on Increased Burnup Topical Report Pre-Submittal Discussions on Fuel Fragmentation,
Relocation and Dispersal (FFRD), Criticality, and Core Coolability
September 15, 2021
2:00 pm – 5:00 pm

<u>NAME</u>	<u>ORGANIZATION</u>
Bob Baxter	Framatome (Framatome)
Morris Byram	Framatome
Lisa Gerken	Framatome
Christina Jones	Framatome
John Klingenfus	Framatome
Will Maxson	Framatome
Glen Seeburger	Framatome
Gordon Wissinger	Framatome
Michelle Bales	NRC (U.S. Nuclear Regulatory Commission (NRC))
Matthew Bernard	NRC
Mark Blumberg	NRC
Kristy Bucholtz	NRC
Alice Chung	NRC
Paul Clifford	NRC
James Corson	NRC
Elijah Dickson	NRC
Joseph Donoghue	NRC
Michael Franovich	NRC
Kevin Heller	NRC
Lucas Kyriazidis	NRC
John Lehning	NRC

<u>NAME</u>	<u>ORGANIZATION</u>
Shanlai Lu	NRC
Robert Lukes	NRC
Joseph Messina	NRC
Ngola Otto	NRC
Mathew Panicker	NRC
Andrew Proffitt	NRC
April Pulvirenti	NRC
Mary-Jane Ross-Lee	NRC
Josh Whitman	NRC
Brandon Wise	NRC
Kent Wood	NRC
Ronald Ballinger	ACRS Member

SUBJECT: SUMMARY OF SEPTEMBER 15, 2021, PARTIALLY CLOSED MEETING BETWEEN FRAMATOME INC. AND THE U.S. NUCLEAR REGULATORY COMMISSION ON INCREASED BURNUP TOPICAL REPORT PRE-SUBMITTAL DISCUSSION REGARDING FUEL FRAGMENTATION RELOCATION AND DISPERSAL DATED OCTOBER 26, 2021

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MBales, NRR	LKyriazidis, RES
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PClifford, NRR	JCorson, RES
JLehning, NRR	MPanicker, NRR
JDonoghue, NRR	APulvirenti, NRR
MFranovich, NRR	
MJRoss-Lee, NRR	

EXTERNAL DISTRIBUTION:

Morris.Byram@framatome.com

ADAMS Accession Nos:

- ML21256A006 (Package)**
- ML21291A062 (Summary)**
- ML21244A343 (Notice)**
- ML21256A016 (Open Session Presentation)**
- ML21256A013 (Closed Session – Proprietary Presentation)**
- ML21256A007 (Closed Session – Nonproprietary Presentation)**
- ML21257A208 (Affidavit)**

***via email**

OFFICE	NRR/DORL/LLPB/PM*	NRR/DORL/LLPB/LA*	NRR/DORL/LLPB/BC*	NRR/DORL/LLPB/PM*
NAME	NOtto	DHarrison	DMorey	NOtto
DATE	10/13/2021	10/21/2021	10/22/2021	10/26/2021

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