



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

December 22, 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 14, 2021, CLOSED VIRTUAL  
FRAMATOME INC. FUEL PERFORMANCE UPDATE MEETING

On September 14, 2021, a closed virtual meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Framatome Inc. (Framatome) to discuss proprietary information regarding Framatome fuel performance and future plans. Framatome provided the NRC staff with an update on both the pressurized water reactor (PWR) and boiling water reactor (BWR) fuel performances. The meeting was used to increase the NRC staff's understanding of Framatome's fuel activities, fuel operating experience, and enhanced accident tolerant fuel (EATF).

Regarding the PWR fuel performance update, Framatome representatives detailed key aspects of the PWR fuel product features, and provided: 1) a status of overall performance for Framatome's PWR designs, 2) a status of GAIA and AGORA lead fuel programs, 3) an overview of PWR fuel examinations and results of recent surveillance campaigns, 4) an overview of anticipated fuel examinations, and 5) an overview of the current EATF projects.

Regarding the BWR fuel performance update, Framatome detailed key aspects of current BWR fuel product features, and provided: 1) a status of overall performance for Framatome's BWR designs, 2) an updated status of ATRIUM 11 fuel and Z4B channel programs, 3) an overview of BWR fuel examinations and results of recent surveillance campaigns, 4) an overview of anticipated BWR fuel examinations, and 5) an overview of the current EATF projects.

A list of the attendees is enclosed. The Framatome presentation materials can be found at ADAMS Package Accession No. ML21273A152 and this meeting summary at ADAMS Accession No. ML21350A154.

Docket No. 99902041

Enclosure: As stated

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

## **List of Attendees**

Closed Fuel Performance Update Meeting with  
the U.S. Nuclear Regulatory Commission and Framatome Inc.  
September 14, 2021  
1:00 pm – 4:00 pm

<b><u>NAME</u></b>	<b><u>ORGANIZATION</u></b>
Morris Byram	Framatome
Gayle Elliott	Framatome
Rhonda Lane	Framatome
Stephen Lydzinski	Framatome
Stephen Mazurkiewicz	Framatome
Jacki Stevens	Framatome
Noushin Amini	Nuclear Regulatory Commission (NRC)
Paul Clifford	NRC
James Corson	NRC
Joseph Donoghue	NRC
Kevin Heller	NRC
Christopher Jackson	NRC
Rebecca Karas	NRC
Scott Krepel	NRC
Lucas Kyriazidis	NRC
John Lehning	NRC
Shanlai Lu	NRC
Robert Lukes	NRC
Joseph Messina	NRC
Dennis Morey	NRC
Ryan Nolan	NRC
Ngola Otto	NRC

Enclosure

<b><u>NAME</u></b>	<b><u>ORGANIZATION</u></b>
Mathew Panicker	NRC
Andrew Proffitt	NRC
Muhammed Razzaque	NRC
Mary-Jane Ross-Lee	NRC
Ahsan Sallman	NRC
Michael Wentzel	NRC
Brandon Wise	NRC
Madalena Lisette	Interpreter
Joe Lucas	Interpreter

SUBJECT: SUMMARY OF SEPTEMBER 14, 2021, CLOSED VIRTUAL FRAMATOME INC.  
FUEL PERFORMANCE UPDATE MEETING DATED DECEMBER 22, 2021

**DISTRIBUTION:**

PUBLIC

RidsACRS\_MailCTR

RidsNrrLADHarrison

RidsOgcMailCenter

RidsNrrDssSfnb

RidsNrrDorLLpb

RidsResOd

RidsNrrDss

JDonoghue, NRR

KHeller, NRR

DMorey, NRR

RLukes, NRR

NOtto, NRR

PClifford, RES

JLehning, NRR

CJackson, NRR

JCorson, RES

LKyriazidis, RES

RKaras, NRR

SKrepel, NRR

SLu, NRR

JMessina, NRR

RNolan, NRR

BWise, NRR

MPanicker, NRR

AProffitt, NRR

MRazzaque, NRR

MRoss-Lee, NRR

ASallman, NRR

MWentzel, NRR

NAmini, NRR

**EXTERNAL DISTRIBUTION:**

Gayle.Elliott@framatome.com

**ADAMS Accession Nos.:**

**ML21273A152 (Package)**

**ML21350A154 (Summary)**

**ML21273A136 (PWR Public)**

**ML21273A138 (BWR Public)**

\*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	12/16/2021	12/20/2021	12/20/2021	12/22/2021

**OFFICIAL RECORD COPY**