



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

January 29, 2020

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

FROM: Jonathan G. Rowley, Project Manager /RA/
Licensing Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF NOVEMBER 5, 2019, CLOSED PRE-SUBMITTAL
MEETING WITH FRAMATOME INC. REGARDING A FORTHCOMING
TOPICAL REPORT ON FLUENCE METHODOLOGIES FOR
SUBSEQUENT LICENSE RENEWAL

On November 5, 2019, a closed pre-submittal meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and Framatome Inc. (Framatome). During the meeting, Framatome and the NRC staff discussed the submittal of a topical report (TR) on fluence methodologies for subsequent license renewal (SLR).

Framatome informed the NRC staff that the intent of the TR is to provide an acceptable analysis method to predict irradiation degradation of the reactor pressure vessel (RPV) during the period of SLR (80 years of plant operation and beyond). The TR is to be applicable to all pressurized water reactors and boiling water reactors. Because of plants operating longer, power uprates, advanced fuel strategies, etc., fluence methodologies need to be updated and validated with measurements that are both within the traditional active fuel region (beltline) and extend beyond the beltline of the RPV. In the TR, Framatome will provide a methodology to compute the fluence everywhere in the RPV, including detailed modeling of the nozzle region. During the meeting, Framatome discussed the various approaches and data used as validation for the methodology. Framatome indicated it would submit the TR within the first quarter of 2020 and request a 12-month review by the NRC staff.

A list of attendees is enclosed. The Framatome proprietary presentation material can be found in the Agencywide Documents Access and Management System.

Docket No. 99902041

Enclosure: List of Attendees

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ON FLUENCE METHODOLOGIES FOR SUBSEQUENT LICENSE RENEWAL

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OFFICE	LLPB/PM	LLPB/LA*	LLPB/BC	LLPB/PM
NAME	JRowley	DHarrison	DMorey	JRowley
DATE	1/29/2020	1/27/2020	1/29/2020	1/29/2020

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LIST OF ATTENDEES

**CLOSED PRE-SUBMITTAL MEETING WITH FRAMATOME REGARDING FLUENCE
METHODOLOGIES FOR SUBSEQUENT LICENSE RENEWAL**

November 5, 2019

Name	Organization
Paul Guill*	Duke Energy (Duke)
Greg Robison*	Duke
Satira Labib*	Duke
Joe Terrell*	Duke
Daniel Roberts*	Duke
Philip Opsal	Framatome Inc. (Framatome)
Pavan Thallapragada	Framatome
Justin Byard	Framatome
Mark Rinckel*	Framatome
Tuck Worsham*	Framatome
Kevin Roberts*	Framatome
Gary Peters*	Framatome
Jonathan Rowley	U.S. Nuclear Regulatory Commission (NRC)
Andrew Prinaris	NRC
Michael Benson	NRC
Brandon Wise	NRC
Dan Widrevitz	NRC
Phillip Sahd	NRC
Dave Rudland	NRC
Ben Parks*	NRC
Jeff Poehler*	NRC

* Participated remotely

Enclosure