



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

June 18, 2025

Gayle Elliott, Director
Licensing and Regulatory Affairs
Framatome Inc.
3315 Old Forest Road
Lynchburg, VA 24501

SUBJECT: REPORT FOR JUNE 17, 2025, VIRTUAL REGULATORY AUDIT REGARDING
FRAMATOME INC. TOPICAL REPORT, ANP-10358P, REVISION 0,
"INCREASED BURNUP FOR PWRs" (EPID L-2024-TOP-0033)

Dear Gayle Elliott:

By letter dated November 26, 2024 (Agencywide Documents Access and Management System (ADAMS) Package Accession No. ML24331A085), Framatome Inc. (Framatome) submitted Topical Report (TR) ANP-10358P, Revision 0, "Increased Burnup for PWRs [Pressurized Water Reactors]," for U.S. Nuclear Regulatory Commission (NRC) review and approval. On June 17, 2025 (ADAMS Accession No. ML25157A112), the NRC staff conducted a virtual audit of TR ANP-10358P, Revision 0, to discuss the requests for additional information (RAIs) dated April 29, 2025 (ADAMS Package Accession No. ML25120A115). At the conclusion of the audit, the NRC staff and Framatome representatives discussed the overall review of the TR and date for the submittal of the RAI responses. The results of the audit provided additional information to support the NRC staff's review and development of the safety evaluation. Enclosed for your information is a copy of the audit report.

Please contact Ngola Otto at 301-415-6695 or via e-mail at Ngola.Otto@nrc.gov with any questions you may have regarding this letter.

Sincerely,

/RA/

Jennivine Rankin, Acting Chief
Licensing Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 99902041

Enclosure:
Audit Report

REGULATORY AUDIT REPORT FOR FRAMATOME, INC.

TOPICAL REPORT ANP-10358P, REVISION 0, "INCREASED BURNUP FOR PWRs"

PROJECT NO. 728

(EPID: 2024-TOP-0033)

1.0 BACKGROUND

By application dated November 26, 2024 (Agencywide Documents Access and Management System (ADAMS) Package Accession No. ML24331A085), Framatome Inc. (Framatome), submitted Topical Report (TR) ANP-10358P, Revision 0, "Increased Burnup for PWRs [Pressurized Water Reactors]," for U.S. Nuclear Regulatory Commission (NRC) review and approval. The NRC staff conducted the June 17, 2025, virtual audit (ADAMS Accession No. ML25157A112) to facilitate the TR review through the discussion of the draft requests for additional information (RAIs) responses. The NRC staff conducted an initial audit on March 25-27, 2025 (ADAMS Package Accession No. ML25071A001) and issued RAIs on April 29, 2025 (ADAMS Package Accession No. ML25120A115).

2.0 REGULATORY AUDIT OBJECTIVES

The audit objectives were accomplished through discussions with Framatome's technical experts. The NRC and Framatome audit participants are provided below.

NRC Participants

Name	Affiliation
Patrick Raynaud	NRC
Kevin Heller	NRC
Joseph Messina	NRC
Richard Fu	NRC
Jack Vande Polder	NRC
Todd Hilsmeier	NRC
Ngola Otto	NRC
Joshua Kaizer	NRC

Framatome Participants

Name	Affiliation
Jerald Holm	Framatome
Lisa Gerken	Framatome
Scott Franz	Framatome
Paul Clifford	Framatome
Bob Baxter	Framatome
Steve Cole	Framatome
Nathan Hottle	Framatome
Brian Friend	Framatome

3.0 REGULATORY AUDIT BASES

Regulatory guidance for the review of fuel system materials and designs and adherence to Title 10 of the *Code of Federal Regulations*, Appendix A to Part 50, General Design Criteria (GDC)-10, "Reactor Design," GDC-11, "Reactor Inherent Protection," and GDC-13, "Instrumentation and Control," is provided in NUREG-0800, "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants" (SRP), Section 4.3, "Nuclear Design." In accordance with SRP Section 4.3, the objectives of the nuclear design's safety review is to provide reasonable assurance that: (1) acceptable fuel designs limits are not exceeded, (2) limiting power distributions are not exceeded, and (3) analytical methods should be representative of the state of the art, and the experiments used to validate the analytical methods should be adequate representations of fuel designs in the reactor and encompass a sufficient range of variables and operating conditions.

4.0 DISCUSSION

The audit focused on discussion of the NRC staff's RAIs, technical questions, and Framatome's draft responses. Framatome plans to finalize its RAI responses and submit to the NRC for review by the end of June 2025.

5.0 CONCLUSION

The audit accomplished the objectives listed in Section 2.0 by allowing direct interaction with Framatome's technical experts. The NRC staff participants were able to obtain clarification on the RAI responses and ask questions. This audit supports the TR review and development of the NRC staff's safety evaluation. No regulatory decisions were made at the audit.

SUBJECT: REPORT FOR JUNE 17, 2025, VIRTUAL REGULATORY AUDIT REGARDING FRAMATOME INC. TOPICAL REPORT, ANP-10358P, REVISION 0, "INCREASED BURNUP FOR PWRS" (EPID L-2024-TOP-0033) DATED JUNE 18, 2025

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EXTERNAL DISTRIBUTION:

Jerald.Holm.ext@framatome.com

ADAMS Accession No.: ML25168A258 (Audit Report) *via eConcurrence NRR-106

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