



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

April 7, 2025

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

SUBJECT: DRAFT SAFETY EVALUATION FOR FRAMATOME TOPICAL REPORT  
ANP-10350P, REVISION 0, "FRAMATOME METHODOLOGY FOR  
BOILING WATER REACTORS: EVALUATION AND VALIDATION OF  
APOLLO2-A/ARTEMIS-B" (EPID L-2022-TOP-0038)

Dear Gayle Elliott:

By letter dated June 30, 2022, and supplemented by letters dated June 30, 2023, October 6, 2023, February 21, 2024, and October 30, 2024 (Agencywide Documents Access and Management System (ADAMS) Package Accession Nos. ML22186A071, ML23181A202, ML23279A112, ML24057A358, and ML24305A188) respectively, Framatome, Inc. (Framatome) submitted Topical Report (TR) ANP-10350P, Revision 0, "Framatome Methodology for Boiling Water Reactors: Evaluation and Validation of APOLLO2-A/ARTEMIS-B," to the U.S. Nuclear Regulatory Commission (NRC) staff for review and approval. A supplement to the methodology to address increased enrichment and higher burnup for boiling water reactor applications was submitted by letter dated February 21, 2024, and accepted by the NRC staff for review on March 22, 2024 (ADAMS Accession No. ML24067A242).

A copy of the proprietary draft safety evaluation (SE) (ADAMS Accession No. ML25052A079) has been placed in the box.com folder. Alan Meginnis, Framatome, has been given access to the folder. The draft SE is provided for a proprietary information review. If Framatome provides comments on other areas, the NRC staff will exercise its discretion on whether to address those comments.

Pursuant to Section 2.390 of Title 10 of the *Code of Federal Regulations* (10 CFR), we have determined that the draft SE may contain proprietary information. If you believe that any information in the draft SE is proprietary, please identify such information line-by-line and define the basis pursuant to the criteria of 10 CFR 2.390. Use bold brackets and yellow highlight to identify any [proprietary information].

**NOTICE: Enclosure 1 to this letter contains Proprietary Information. When this letter is separated from the enclosure, this letter is decontrolled.**

G. Elliott

- 2 -

Your response must be via a letter from an authorized individual. Please provide your response within 20 working days. To facilitate the NRC staff's review of your comments, please provide a marked up copy of the draft SE showing proposed changes and provide a summary table of the proposed changes. The final SE will be issued after making any necessary changes. If Framatome would like to discuss the draft SE in detail, we can do that in a noticed meeting.

If you have any questions, please contact Ngola Otto at 301-415-6695 or by email at Ngola.Otto@nrc.gov.

Sincerely,

*/RA/*

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

Docket No. 99902041  
Project No. 728

Enclosures:

1. Draft Safety Evaluation (Proprietary)
2. Draft Safety Evaluation (Non-Proprietary)

G. Elliott

- 3 -

SUBJECT: DRAFT SAFETY EVALUATION FOR FRAMATOME TOPICAL REPORT  
ANP-10350P, REVISION 0, "FRAMATOME METHODOLOGY FOR  
BOILING WATER REACTORS: EVALUATION AND VALIDATION OF  
APOLLO2-A/ARTEMIS-B" (EPID L-2022-TOP-0038) DATED APRIL 7, 2025

**DISTRIBUTION:**

PUBLIC (Letter & Nonprop.-Enclosure 2)

NON-PUBLIC (Prop-Enclosure 1)

RidsResOd Resource

RidsNrrOd Resource

RidsNrrDss Resource

RidsNrrLADHarrison Resource

RidsNrrDorl Resource

RidsNrrDorlLlpb Resource

RidsOgcMailCenter Resource

RidsACRS\_MailCTR Resource

SKrepel, NRR

ASmith, NRR

ACollier, NRR

KHeller, NRR

JVande Polder, NRR

NOtto, NRR

GGeorge, NRR

**ADAMS Accession Nos.:**

**ML25052A035 (Package)**

**ML25052A083 (Letter)**

**ML25052A079 (Draft SE – proprietary)**

**ML25052A056 (Draft SE – non-proprietary)**

**\*via eConcurrence**

**NRR-106**

OFFICE	NRR/DORL/LLPB/PM*	NRR/DORL/LLPB/LA*	NRR/DSS/SNPB/BC*
NAME	NOtto	DHarrison	SKrepel
DATE	2/23/2025	3/5/2025	3/6/2025
OFFICE	OGC – NLO*	NRR/DORL/LLPB/BC*(A)	NRR/DORL/LLPB/PM*
NAME	NMertz (KWilson for)	JRankin	NOtto
DATE	4/7/2025	4/7/2025	4/7/2025

**OFFICIAL RECORD COPY**