



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

August 21, 2023

Ms. Michelle Catts
Senior Vice President, Regulatory Affairs
GE-Hitachi Nuclear Energy Americas, LLC
P.O. Box 780, M/C A-10
Wilmington, NC 28401-0780

SUBJECT: FINAL SAFETY EVALUATION FOR GLOBAL NUCLEAR FUELS – AMERICAS TOPICAL REPORTS NEDC-33935P, REVISION 0, “LANCR02/PANAC11 APPLICATION METHODOLOGY,” NEDC-33377P, REVISION 4, “LANCR02 LATTICE PHYSICS MODEL QUALIFICATION REPORT,” AND NEDC-33376P, REVISION 4, “LANCR02 LATTICE PHYSICS MODEL QUALIFICATION REPORT” (EPID: L-2021-TOP-0038)

Dear Ms. Catts:

By letter dated December 17, 2021 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML21351A266), Global Nuclear Fuels – Americas (GNF-A) submitted to the U.S. Nuclear Regulatory Commission (NRC) a request for review and approval of Topical Reports (TRs) NEDC-33935P, Revision 0, “LANCR02/PANAC11 Application Methodology,” NEDC-33377P, Revision 4, “LANCR02 Lattice Physics Model Qualification Report,” and NEDC-33376P, Revision 4, “LANCR02 Lattice Physics Model Qualification Report.” By email dated May 6, 2023, the NRC staff issued its draft safety evaluation (SE) (ADAMS Accession No. ML23065A105).

The NRC staff has found the TR acceptable for referencing in licensing applications for nuclear power plants to the extent specified and under the limitations delineated in the TR and in the enclosed SE. The final SE defines the basis for our acceptance of the TR.

Our acceptance applies only to material provided in the subject TR. We do not intend to repeat our review of the accepted material described in the TR. When the TR appears as a reference in license applications, our review will ensure that the material presented applies to the specific plant involved. License amendment requests that deviate from this TR will be subject to a plant specific review in accordance with applicable review standards.

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

In accordance with the guidance provided on the NRC website, we request that GNF-A publish accepted versions of the proprietary and non-proprietary TR within three months of receipt of the date of this email. The accepted proprietary version shall incorporate this letter and the enclosed proprietary final SE, and the accepted non-proprietary version shall incorporate this letter and the redacted non-proprietary final SE after the title page. Also, the accepted versions must contain historical review information, including NRC requests for additional information and your responses after the title page. The accepted version shall include an “-A” (designating accepted) following the TR identification symbol.

If you have any questions, please contact Ekaterina Lenning via phone at 301-415-3151 or via email at Ekaterina.Lenning@nrc.gov.

Sincerely,

/RA/

Gerond A. George, Chief
Licensing Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 99901376

Enclosure:
Final SE (Proprietary)

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LATTICE PHYSICS MODEL QUALIFICATION REPORT,” AND NEDC-33376P,
REVISION 4, “LANCR02 LATTICE PHYSICS MODEL QUALIFICATION
REPORT” (EPID: L-2021-TOP-0038) DATED AUGUST 21, 2023

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