



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

March 25, 2024

Michelle Catts
Senior Vice President, Nuclear Programs
GE-Hitachi Nuclear Energy Americas, LLC
P.O. Box 780, M/C A-18
Wilmington, NC 28402

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION VERIFICATION FOR GLOBAL NUCLEAR FUEL - AMERICAS ACCEPTED VERSIONS OF 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 Michelle Catts:

By letter dated September 15, 2023, Global Nuclear Fuel - Americas (GNF-A), submitted the approved versions ("-A") 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" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML23258A108), to the U.S. Nuclear Regulatory Commission (NRC). GNF-A has done so in accordance with our request to publish -A proprietary and non-proprietary versions of the TRs, as detailed in the transmittal letter dated August 21, 2023, of the NRC staff's final safety evaluation (ADAMS Accession No. ML23160A042) for the original TRs.

By letter dated December 18, 2023, GNF-A submitted a letter clarifying the -A versions of 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" (ADAMS Accession No. ML23352A196). GNF-A stated that the letter was submitted to clarify that the accepted versions of the TRs are -A versions of the TRs: NEDC-33376P-A, Revision 5, "LANCR02 Lattice Physics Model Description," NEDC-33377P-A, Revision 5, "LANCR02 Lattice Physics Model Qualification Report," NEDC-33935P-A, Revision 1, "LANCR02/PANAC11 Application Methodology," and stated that the -A versions of the TRs included only the addition of the final SE, GNF-A responses to the NRC RAIs, and changes prompted by the RAI responses.

The NRC staff has completed its verification review of the -A versions of the TRs. The NRC staff verified that the submitted "-A" versions are acceptable for referencing in licensing applications for nuclear power plants to the extent specified and under the limitations delineated in the accepted versions of the TR that are now approved for use in future licensing actions.

If the NRC's criteria or regulations change so that its conclusion in this letter (that the TR is acceptable) is invalidated, GNF-A and/or an applicant referencing the TR will be expected to revise and resubmit its respective documentation or submit justification for the continued applicability of the TR without revision of the respective documentation.

If you have any questions or comments concerning this matter, please contact Ekaterina Lenning via e-mail at Ekaterina.Lenning@nrc.gov.

Sincerely,

/RA Leslie Fields for/

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

Docket No.: 99901376

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