



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

January 12, 2021

Ms. 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: FINAL SAFETY EVALUATION FOR GE-HITACHI LICENSING TOPICAL  
REPORT NEDC-33912P, REVISION 0, "BWRX-300 REACTIVITY CONTROL"

Dear Ms. Catts:

By letter dated March 31, 2020, GE-Hitachi Nuclear Energy Americas, LLC (GEH), submitted Licensing Topical Report (LTR) NEDC-33912P, Revision 0, "BWRX-300 Reactivity Control" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20092A016), to the U.S. Nuclear Regulatory Commission (NRC) staff for review and approval in support of a future licensing application for the GEH small modular reactor (SMR) under Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, "Domestic Licensing of Production and Utilization Facilities," or Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." By letter dated September 4, 2020 (ADAMS Accession No. ML20248H540), GEH submitted Revision 0, Supplement 1 of the LTR.

The NRC staff has found LTR NEDC-33912P, Revision 0, as updated by the September 4, 2020, supplement, to be acceptable for referencing in licensing applications for the GEH SMR design to the extent specified in the enclosed safety evaluation (SE). The SE defines the basis for acceptance of the LTR.

In accordance with the guidance provided on the NRC's LTR website (<http://www.nrc.gov/about-nrc/regulatory/licensing/topical-reports.html>), the NRC requests that GEH publish an accepted version of this LTR within three months of receipt of this letter. The accepted version shall incorporate this letter and the enclosed SE between the title page and the abstract. It must be well indexed, so information is readily located. Also, it must contain in its appendices historical review information, such as requests for additional information and accepted responses, and original LTR pages that were replaced. The accepted version shall include an "-A" (designated accepted) following the report identification symbol.

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

If you have any questions or comments concerning this matter, I can be reached via e-mail at [Rani.Franovich@nrc.gov](mailto:Rani.Franovich@nrc.gov).

Sincerely,

*/RA/*

Rani Franovich, Senior Project Manager  
New Reactor Licensing Branch  
Division of New and Renewed Licenses  
Office of Nuclear Reactor Regulation

Docket No.: 99900003

Enclosure: As stated

cc w/o encl.: GEH BWRX-300 NEDC-33912P ListServ

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DATED: JANUARY 12, 2021

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**ADAMS Accession Nos.:**

**PKG: ML21006A166**

**LTR: ML21006A167**

**SE: ML20275A373 (Public)**

**SE: ML20275A372 (Non-Public)**

**\*via email**

**NRR-106**

<b>OFFICE</b>	DNRL/NRLB:PM	DNRL/NRLB:LA	DNRL/NRLB: BC
<b>NAME</b>	RFranovich	CSmith*	MDudek
<b>DATE</b>	01/05/2021	01/07/2021	01/12/2021

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