



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

March 09, 2022

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

SUBJECT: SAFETY EVALUATION FOR GE-HITACHI LICENSING TOPICAL REPORT  
NEDC-33922P, REVISION 2, "BWRX-300 CONTAINMENT EVALUATION  
METHOD" (DOCKET NO. 99900003)

Dear Ms. Catts:

By letter dated September 25, 2021, GE-Hitachi Nuclear Energy Americas, LLC (GEH) submitted Licensing Topical Report (LTR) NEDO-33922, "BWRX-300 Containment Evaluation Method," Revision 0 (Agencywide Documents Access and Management System Accession No. ML20269A469) to the U.S. Nuclear Regulatory Commission (NRC) staff for review. In that letter, GEH requested the NRC staff to review and approve the analysis method used for the BWRX-300 containment thermal hydraulics performance.

It is the NRC staff's understanding that NEDC-33922P will be referenced in a future application for a construction permit or a combined operating license for the BWRX-300 small modular reactor, an evolutionary boiling water reactor based on GEH's Economic Simplified Boiling-Water Reactor design, previously certified.

The NRC staff informed GEH that it had accepted NEDC-33922P for review in a letter dated November 13, 2020 (ADAMS Accession No. ML20149K635). Subsequently, during the staff review, GEH submitted Revision 1, By letter dated November 19, 2021 (ADAMS Accession No. ML21323A008), and then on December 17, 2021 (ADAMS Accession No. ML21351A168), GEH submitted Revision 2 of this LTR for the NRC staff's review and approval.

The NRC staff's safety evaluation (SE) for NEDC-33922P, Revision 2, is available in ADAMS under Accession No. ML22004A080. A public version of the NRC staff's SE can be found in ADAMS under Accession No. ML22040A004. If you have any questions or comments concerning this matter, I can be reached at (301) 415-1388 or via e-mail address at [James.Shea@nrc.gov](mailto:James.Shea@nrc.gov)

Sincerely,

*/RA/*

James J. Shea, Senior Project Manager  
New Reactor Licensing Branch  
Division of New and Renewed Licenses  
Office of Nuclear Reactor Regulation

Docket No.: 99900003

cc: GEH BWRX-300 NEDC-33922P ListServ

SUBJECT: SAFETY EVALUATION FOR GE-HITACHI LICENSING TOPICAL REPORT NEDC-33922P, REVISION 2, "BWRX-300 CONTAINMENT EVALUATION METHOD" (DOCKET NO. 99900003) DATED: MARCH 09, 2022

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**ADAMS Accession Nos.:**

**PKG: ML22004A079**

**LTR: ML22040A005**

**\*via e-mail**

**NRR-106**

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