



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

April 27, 2022

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 NEDO-33914, REVISION 1, "BWRX-300 ADVANCED CIVIL
CONSTRUCTION AND DESIGN APPROACH" (DOCKET NO. 99900003)

Dear Ms. Catts:

By letter dated January 20, 2021, GE-Hitachi Nuclear Energy Americas, LLC (GEH) submitted Licensing Topical Report (LTR) NEDO-33914, "BWRX-300 Advanced Civil Construction and Design Approach," Revision 0 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML21020A135), 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." Subsequently, during the staff review, GEH submitted Revision 1 of the LTR by letter dated November 18, 2021 (ADAMS Accession No. ML21322A214).

The NRC staff has found GEH LTR NEDO-33914, Revision 1, to be acceptable for referencing in licensing applications for the GEH SMR design to the extent specified in the enclosed final safety evaluation (SE) that defines the basis for acceptance. In addition, on April 21, 2022 (ADAMS Accession No. ML22105A106), the Advisory Committee on Reactor Safeguards concluded that the staff's SE for LTR NEDO-33914, Revision 1, with the limitations and conditions imposed, is appropriate and should be issued. Therefore, the staff did not make any changes to the staff Advanced Final Safety Evaluation dated February 15, 2022 (ADAMS Accession No. ML22020A036).

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 after the title page. Also, it must contain in its appendices historical review information, such as requests for additional information, accepted responses, and the actual revised pages (showing revision bars) that were included as part of LTR NEDO-33914, Revision 1. 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 Alina.Schiller@nrc.gov.

Sincerely,

/RA/

Alina Schiller, Project Manager
New Reactor Licensing Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

Docket No.: 99900003

Enclosure:
Safety Evaluation

cc: GEH BWRX-300 NEDC-33914 ListServ

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DISTRIBUTION: (w/o safety evaluation)

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ADAMS Accession Nos.:

PKG: ML22103A125

LTR: ML22103A126

SE: ML22020A036 (Public)

***via e-mail**

NRR-106

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