



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

June 27, 2024

MEMORANDUM TO: Michelle W. Hayes, Chief
Licensing and Regulatory Infrastructure Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

FROM: Stephen Philpott, Senior Project Manager */RA/*
Advanced Reactor Licensing Branch 2
Division of Advanced Reactors and Non-Power
Production and Utilization Facilities
Office of Nuclear Reactor Regulation

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION SUMMARY OF
THE FEBRUARY 28, 2024, PARTIALLY CLOSED MEETING
WITH GE-HITACHI TO DISCUSS STAFF FEEDBACK AND
CLOSEOUT OF THE BWRX-300 SAFETY STRATEGY TOPICAL
REPORT READINESS ASSESSMENT

The U.S. Nuclear Regulatory Commission (NRC) staff held a partially closed meeting with GE-Hitachi Nuclear Energy Americas, LLC (GEH) on February 28, 2024, to discuss the NRC staff's feedback and completion of its readiness assessment of the GEH draft topical report NEDC-33934P, "BWRX-300 Safety Strategy," for the BWRX-300 small modular reactor design. The purpose of this meeting was for the NRC staff to discuss its final observations regarding the draft topical report (Draft Revision 0) made available for NRC staff viewing in a GEH-controlled Electronic Reading Room.

The NRC staff conducted the readiness assessment in accordance with the NRC Office of Nuclear Reactor Regulation's Office Instruction LIC-116, Revision 0, "Preapplication Readiness Assessment," (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20104B698) and as outlined in Appendix A, "Pre-Application Engagement Guidance," to the NRC Interim Staff Guidance, "Review of Risk-Informed, Technology-Inclusive Advanced Reactor Applications—Roadmap," (ML23277A139).

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The meeting notice can be found under ML24047A137. This meeting notice was posted on the NRC public website as a partially closed meeting and the slides for the public portion of the meeting are available at ML24163A245.

The NRC staff opened the meeting by giving a brief overview of the background and purpose of the readiness assessment being conducted regarding GEH's proposed draft topical report "BWRX-300 Safety Strategy." The NRC staff summarized the previous pre-application engagements regarding the BWRX-300 Safety Strategy which began in June 2022. Details of these prior engagements are noted in the NRC staff's presentation slides. The NRC staff also provided some general feedback from its readiness assessment review which began on July 26, 2023. The NRC staff noted that the purpose of the Readiness Assessment is to identify any significant information gaps or significant technical or regulatory issues that could challenge the acceptance or review of the submittal but reiterated that it is not an acceptance review.

The staff from the Canadian Nuclear Safety Commission (CNSC) review team attended this meeting as part of a 2019 memorandum of cooperation between the NRC and CNSC (ML19168A017), and a September 2022 Charter on Collaboration on GEH's BWRX-300 Design (ML22284A024).

At the conclusion of the open portion of the meeting, the public was invited to make comments or ask questions of the NRC staff. No comments or questions from members of the public were received.

During the closed portion of the meeting, the NRC staff and GEH staff discussed the specific details of the NRC staff's readiness assessment observations. The topics discussed included justification for the use of non-safety-related equipment to mitigate anticipated operational occurrences and the potential need for associated exemptions, application of design-basis accident acceptance criteria within the safety strategy, and safety classification and reliability of functions and related components. GEH staff noted that they intended to make revisions to the topical report to address some of the NRC staff's observations prior to submitting the Licensing Topical Report (LTR) to the NRC for formal review. There were no regulatory decisions made during this meeting. GEH subsequently submitted LTR NEDC-33934P, Revision 0, "BWRX-300 Safety Strategy," to the NRC on March 8, 2024 (ML24068A209) and the NRC staff has accepted this LTR for review (ML24096A209).

Project No. 99900003

Enclosures:

1. List of Attendees
2. Readiness Assessment
Observations – Closed Portion (Proprietary)

Enclosure 2 to this letter contains Proprietary information. When separated from Enclosure 2, this letter is DECONTROLLED.

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 DATED: JUNE 27, 2024

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ADAMS Accession Nos.:

Package: ML24163A244

Meeting Summary: ML24165A257

***via-email**

NRR-106

OFFICE	NRR/DANU/UAL2:PM	NRR/DNRL/NRLB:LA	NRR/DNRL/NRLB:BC	NRR/DANU/UAL2:PM
NAME	SPhilpott*	SGreen*	MHayes*	SPhilpott*
DATE	6/13/24	6/14/24	6/14/24	6/27/24

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**U.S. NUCLEAR REGULATORY COMMISSION SUMMARY OF THE FEBRUARY 28, 2024,
PARTIALLY CLOSED MEETING WITH GE-HITACHI TO DISCUSS STAFF FEEDBACK AND
CLOSEOUT OF THE BWRX-300 SAFETY STRATEGY TOPICAL REPORT READINESS
ASSESSMENT**

List of Attendees

Angelo Stubbs	U.S. Nuclear Regulatory Commission (NRC)
Brian Lee	NRC
Brian Wittick	NRC
Chris Van Wert	NRC
Daniel Silverstein	NRC
Dinesh Taneja	NRC
Edward Robinson	NRC
Elijah Dickson	NRC
Fanta Sacko	NRC
Gurjendra Bedi	NRC
Hiruy Hadgu	NRC
Jim Shea	NRC
Jordan Glisan	NRC
Joseph Ashcraft	NRC
Joseph Donoghue	NRC
Michelle Hayes	NRC
Nicholas Hansing	NRC
Ryan Nolan	NRC
Fanta Sacko	NRC
Samuel Lee	NRC
Santosh Bhatt	NRC
Shanlai Lu	NRC
Shilp Vasavada	NRC
Stacey Rosenberg	NRC
Stephanie Garza	NRC
Stephen Philpott	NRC
Stewart Bailey	NRC
Sunil Weerakkody	NRC
Tania Martinez Navedo	NRC
Yuken Wong	NRC
Michelle Catts	GE-Hitachi Nuclear Energy Americas, LLC (GEH)
Michael Cook	GEH
Christer Dahlgren	GEH
Thomas Demitrack	GEH
Alyssa Envall	GEH
Dennis Henneke	GEH
David Hinds	GEH
Randy Jacobs	GEH

Suzanne Karkour	GEH
Erik Kirstein	GEH
George Malone	GEH
Kelli Roberts Banks	GEH
George Wadkins	GEH
Terri Walsh	GEH
Frostie White	GEH
Chris Nolan	Duke Energy
James Ashe	Tennessee Valley Authority (TVA)
Steven Hilmes	TVA
Dakota Huddleston	TVA
Stephen Kimura	TVA
Veronica Kyles	TVA
William Ryan	TVA
Raymond Schiele	TVA
Owen Scott	TVA
James Thornton	TVA
Sanja Simic	Canadian Nuclear Safety Commission (CNSC)
Khan Saad	Ontario Power Generation (OPG)
Parlatan Yuksel	OPG
Andrew Brenner	SMR, LLC, A Holtec International Company
William Robb Stewart	Boston Atomics