



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



CANADIAN  
NUCLEAR SAFETY COMMISSION  
OTTAWA, ON K1P 5S9

July 28, 2023

Mr. George E. Wadkins  
Vice President, New Power Plants  
and Products Licensing  
GE-Hitachi Nuclear Energy  
Americas, LLC

SUBJECT: UNITED STATES NUCLEAR REGULATORY- CANADIAN NUCLEAR  
SAFETY COMMISSION JOINT REPORT ON GE-HITACHI'S SAFETY  
STRATEGY WHITE PAPER FOR THE BWRX-300 REACTOR DESIGN

Dear Mr. Wadkins:

The enclosed report documents the results of collaborative activities between the Canadian Nuclear Safety Commission (CNSC) and the United States (U.S.) Nuclear Regulatory Commission (NRC) concerning a request by GE-Hitachi Nuclear Energy Americas LLC (GEH) to obtain feedback on its Safety Strategy White Paper for the BWRX-300 reactor design. This document was submitted to the U.S. NRC and CNSC on December 6, 2022 (Agencywide Documents Access and Management System Accession No. ML22341A058, CNSC e-Doc 7029882). The results of this report may be used by the vendor or a potential licensee in future discussions with either regulator, but they are not legally binding on the CNSC or the USNRC.

The CNSC and the USNRC have reviewed the white paper. In general, the proposed strategy in the White Paper appears to be consistent with CNSC's regulations and processes but will require further development to demonstrate adherence to CNSC requirements. With respect to the NRC, the proposed safety strategy in the white paper may benefit from better clarity on how it demonstrates compliance with the NRC regulations and guidance regarding event categorization, mitigation, and safety analyses acceptance criteria, including identification of planned exemption requests from specific requirements that are otherwise met through GEH's alternative approach.

If you have questions about this matter, please contact Getachew Tesfaye at [Getachew.Tesfaye@nrc.gov](mailto:Getachew.Tesfaye@nrc.gov) or Aurelian Tanase at [aurelian.tanase@cnscccsn.gc.ca](mailto:aurelian.tanase@cnscccsn.gc.ca)

Sincerely,

 <p><b>Approved by</b>  <b>Mohamed K. Shams</b>  <small>Digitally signed by Mohamed K. Shams  Date: 2023.07.27 15:47:55 -04'00'</small></p> <hr/> <p>Dr. Mohamed K. Shams, Director  Division of Advanced Reactors and Non-Power  Production and Utilization Facilities  United States Nuclear Regulatory Commission</p> <p><b>Brian W. Smith</b>  <small>Digitally signed by Brian W. Smith  Date: 2023.07.28 07:41:41 -04'00'</small></p> <hr/> <p>Brian Smith, Director  Division of New and Renewed Licenses  United States Nuclear Regulatory Commission</p>	 <p><b>Approved by</b>  <b>Ducros, Caroline</b>  <small>Digitally signed by Ducros, Caroline  DN: C=CA, O=GC, OU=CNSC-CCSN, CN=Ducros, Caroline*  Reason: I am approving this document  Location:  Date: 2023.07.27 14:59:04-04'00'  Foxit PDF Editor Version: 12.1.2</small></p> <hr/> <p>Dr. Caroline Ducros, Director General  Directorate of Advanced Reactor Technologies  Canadian Nuclear Safety Commission</p> <p><b>rickard, melanie</b>  <small>Digitally signed by rickard, melanie  DN: C=CA, O=GC, OU=CNSC-CCSN, ON=rickard, melanie*  Reason: I am approving this document  Location:  Date: 2023.07.20 14:02:28-04'00'  Foxit PDF Editor Version: 12.1.2</small></p> <hr/> <p>Melanie Rickard, (Acting) Director General  Directorate of Assessment and Analysis  Canadian Nuclear Safety Commission</p>
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Project No.: 99900003

cc: GEH BWRX-300 NEDC-33922P ListServ  
Aurelian Tanase, CNSC

Enclosure:  
As stated

SUBJECT: UNITED STATES NUCLEAR REGULATORY- CANADIAN NUCLEAR SAFETY  
 COMMISSION JOINT REPORT ON GEH BWRX-300 SAFETY STRATEGY  
 WHITE PAPER  
 DATED: July, 2023

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