



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

May 2, 2018

Mr. Jerald G. Head  
Senior Vice President, Regulatory Affairs  
GE Hitachi Nuclear Energy  
3901 Castle Hayne Road MC A-18  
Wilmington, NC 28401

SUBJECT: ADVANCED BOILING-WATER REACTOR DESIGN CERTIFICATION  
RENEWAL APPLICATION — SAFETY EVALUATION WITH NO OPEN ITEMS  
FOR SECTION 5.2.5, “REACTOR COOLANT PRESSURE BOUNDARY  
LEAKAGE DETECTION”

Dear Mr. Head:

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing a safety evaluation (SE) with no open items to supplement the final safety evaluation report associated with the staff’s review of the advanced boiling-water reactor (ABWR) design that was documented in NUREG-1503, “Final Safety Evaluation Report Related to the Certification of the Advanced Boiling Water Reactor Design,” and NUREG-1503, Supplement 1. This SE will document the staff’s review of your application dated December 7, 2010, to renew the ABWR design certification.

The staff’s SE for Section 5.2.5, “Reactor Coolant Pressure Boundary Leakage Detection,” is being provided to the Advisory Committee on Reactor Safeguards (ACRS) Subcommittee to support a future meeting of the ACRS Subcommittee.

The enclosed SE is being provided only to GEH for review of proprietary information pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 “Public Inspections, Exemptions, Requests for Withholding.” The staff concludes that the enclosed SE does not contain any information for which exemption from public disclosure has been sought or approved or any factual errors. However, the NRC will withhold the enclosed SE from public disclosure for 10 business days from the date of this letter to allow you the opportunity to verify the staff’s conclusion that the SE contains no such exempt information or any factual errors. If within that 10 day period, you do not request that all or portions of the SE be withheld from public disclosure, the enclosure will be made available for public inspection through the NRC Public Document Room and the Publicly Available Records component of NRC’s Agencywide Documents Access and Management System and placed on the NRC’s public web page for this application.

**Document transmitted herewith  
contains sensitive unclassified  
information. When separated from the  
enclosure, this document is  
“DECONTROLLED.”**

J. Head

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If you have any questions or comments concerning this matter, I can be reached at 301-415-4093 or via e-mail address at [Adrian.Muniz@nrc.gov](mailto:Adrian.Muniz@nrc.gov).

Sincerely,

**/RA/**

Adrian Muñoz, Acting Branch Chief  
Licensing Branch 3  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-045

Enclosure:  
As stated

cc: w/o encl. See next page

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LEAKAGE DETECTION" DATED MAY 2, 2018

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**NRO-002**

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