

May 10, 2017

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NUMBER 12  
RELATED TO CHAPTER 6 FOR GE-HITACHI NUCLEAR ENERGY  
ADVANCED BOILING-WATER REACTOR DESIGN CERTIFICATION RULE  
RENEWAL APPLICATION

Dear Mr. Head:

By letter dated December 7, 2010, GE Hitachi Nuclear Energy submitted for approval an application to renew the Advanced Boiling-Water Reactor design certification rule pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52. The U.S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on whether to grant the renewal application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter. You are requested to respond within 45 days of the date of this letter.

If changes are needed to the design control document, the staff requests that the RAI response include the proposed wording changes. If you have any questions or comments concerning this matter, I can be reached at 301-415-4093 or by e-mail at [adrian.muniz@nrc.gov](mailto:adrian.muniz@nrc.gov).

Sincerely,

***/RA – G. Tesfaye for/***

Adrian Muñiz, Project Manager  
Licensing Branch 3  
Division of New Reactor Licensing  
Office of New Reactors

Docket No.: 052-45

eRAI Tracking No. 8834

Enclosure: Request for Additional Information

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NUMBER 12 RELATED TO CHAPTER 6 FOR GE-HITACHI NUCLEAR ENERGY ADVANCED BOILING-WATER REACTOR DESIGN CERTIFICATION RULE RENEWAL APPLICATION

Dated: May 10, 2017

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**ADAMS Accession No.: ML17130A798**

**NRO-002**

<b>OFFICE</b>	DEIA/MEB/TR	DEIA/MEB/BC	DNRL/LB3/LPM	DNRL/LA	DNRL/LB3/LPM
<b>NAME</b>	TLe	TLupold	AMuñiz(sign)	SGreen**	AMuñiz (GTesfaye for-sign)
<b>DATE</b>	5/8/17*	5/8/17*	5/10/17	05/10/17	5/10/17

**\*Approval captured electronically in the electronic RAI system. \*\*via e-mail**

**OFFICIAL RECORD COPY**

**Request for Additional Information 12**

Application Title: GEH ABWR DC Renewal

Operating Company: GEH

Docket No. 52-045

Review Section: 06.02.02 - Containment Heat Removal Systems

QUESTION 06.02.02-1

During the audit of ABWR ECCS strainer design (ADAMS Accession no. ML17046A504), the staff identified that in Doc 24A5822 "ECCS Suction Strainers, Piping and Support" Revision 7, the applicant specified that the ECCS strainers are designed in accordance to ASME Code Section III. However, DCD Tier 2, Section 6.C "Containment Debris Protection for ECCS Strainers" does not provide the construction codes and standards of the ECCS strainers design and Table 3.2-1 did not include the component classifications of ECCS strainers (e.g. safety class, ASME code class, seismic category and quality group). GDC 1 states that structures, systems, and components must be designed, fabricated, erected, constructed, tested and inspected to quality standards commensurate with the importance of the safety function to be performed. Therefore, the staff requests the applicant to provide in Tier 2 of the ABWR DCD, the description of construction codes and classifications (safety class, ASME code class, seismic category and quality group) for the ECCS strainer design.

Enclosure