

October 10, 2006

Mr. David H. Hinds, Manager, ESBWR
General Electric Company
P.O. Box 780, M/C L60
Wilmington, NC 28402-0780

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 72 RELATED TO
ESBWR DESIGN CERTIFICATION APPLICATION

Dear Mr. Hinds:

By letter dated August 24, 2005, General Electric Company (GE) submitted an application for final design approval and standard design certification of the economic simplified boiling water reactor (ESBWR) standard plant design pursuant to 10 CFR Part 52. The Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed design.

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. This RAI concerns Chapter 5 of the ESBWR Design Control Document.

Chapter 5: 5.2-30 through 5.2-35; and 5.4-19.

To support the review schedule, you are requested to respond to this RAI by November 22, 2006.

If you have questions or comments concerning this matter, please contact me at (301) 415-3207 or saw8@nrc.gov or you may contact Amy Cubbage at (301) 415-2875 or aec@nrc.gov.

Sincerely,

/RA/

Shawn A. Williams, Project Manager
ESBWR/ABWR Projects Branch
Division of New Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 52-010

Enclosure: As stated

cc: See next page

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ACCESSION NO. ML062790447

OFFICE	NESB/PM	NESB/BC(A)
NAME	S.Williams	JColaccino
DATE	10/5/2006	10/10/2006

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Distribution for DCD RAI Letter No. 72 dated October 10, 2006

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REQUESTS FOR ADDITIONAL INFORMATION (RAIs)
ESBWR DESIGN CONTROL DOCUMENT (DCD) TIER 2, Revision 1, Chapter 5

RAI Number	Reviewer	Question Summary	Full Text
5.2-30	Huang J	Provide reference to a specific edition and addenda of the ASME Code and OM Code	Reference to a specific edition and addenda of the ASME Code and OM Code is necessary to reach a safety finding during the design certification stage. Identify in DCD Tier 2, Table 1.9-22 the specific addenda of ASME Code for component design and the specific addenda of OM Code for inservice testing of pumps, valves, and snubbers.
5.2-31	Huang J	Identify the OM Code Cases that apply to inservice testing of pumps, valves, and snubbers	DCD Tier 2, Revision 1, Table 5.2-1 has not identified the OM Code Cases that apply to inservice testing of pumps, valves, and snubbers. According to SRP 5.2.1.2, the table identifying the Code Cases is checked for compliance with the list of acceptable Code Cases identified in the Regulatory Guides (RGs). Identify in ESBWR Table 5.2-1 the specific OM Code Cases that apply to inservice testing of pumps, valves, and snubbers.
5.2-32	Wu J	List Code Cases Annulled or under development	Provide a table listing of either annulled Code Cases that are not included in DCD Tier 2, Table 5.2-1, or Code Cases that are under development, which will potentially be applied in the design and construction of ESBWR pressure-retaining ASME Code, Section III, Class 1, 2 and 3 components.
5.2-33	Wu J	Discuss the applicability of Code Case N-71-17.	DCD Tier 2, Revision 1, Table 5.2-1 lists Code Cases N-71-17 for the design and construction of the ESBWR. However, the current approved revision is Code Case N-71-18. Please justify the differences between the two revisions in the ESBWR design application.
5.2-34	Wu J	Applicability of ASME Section XI inservice inspection Code Cases for ASME Code Class 1, 2, and 3 components.	DCD Tier 2, Table 5.2-1 lists nine Code Cases in RG 1.147, "Inservice Inspection Code Case Acceptability. ASME Section XI, Division 1." It is noted that the only acceptable ASME Code Cases that may be used for the design of ASME Code Class 1, 2, and 3 components in the ESBWR are those either conditionally or unconditionally approved in RG 1.84. Discuss whether the Code Cases pertaining to ASME Section XI inservice inspection can be used for the design of ASME Code Class 1, 2, and 3 components in the ESBWR.

RAI Number	Reviewer	Question Summary	Full Text
5.2-35	Wu J	Confirmation of annulled Code Cases, which are considered active and valid for ESBWR.	Code Cases listed in DCD Tier 2, Table 5.2-1 may, for design purposes, be used until appropriately annulled. Annulled cases are considered active for equipment that has been contractually committed to, for fabrication prior to the annulment. Confirm that in Section 5.2.1.2, the annulled Code Cases, which are considered active and valid for ESBWR are limited to the relevant Code Cases listed in Table 5.2-1 only.
5.4-19	Lois L	RWCU regulatory requirements	DCD Tier 2, Revision 1, Section 5.4.8, reactor water cleanup (RWCU)/shutdown cooling (SDC) system lists GDC 1, 2, 14, 60, and 61 and Regulatory Guide (RG) 1.56 for the power generation mode of operation. However, RG 1.56 (Revision 1, July 1978) also refers to the requirements of GDC 15 and 31. Should GDC 15 and 31 also be listed in DCD Tier 2, Section 5.4.8?

ESBWR Mailing List

cc:

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