



HITACHI

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MFN 06-290 Supplement 4

Docket No. 52-010

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U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555-0001

Subject: Response to Portion of NRC Request for Additional Information Letter No. 219 Related to the ESBWR Design Certification Application – Nuclear Boiler System - RAI Number 5.2-50 S03

The purpose of this letter is to submit the GE Hitachi Nuclear Energy (GEH) response to the U.S. Nuclear Regulatory Commission (NRC) Request for Additional Information (RAI) sent by NRC letter 219 dated June 30, 2008 (Reference 1).

Enclosure 1 contains the GEH response to RAI Number 5.2-50 S03.

If you have any questions or require additional information, please contact me.

Sincerely,

Lee F. Dougherty for

Richard E. Kingston
Vice President, ESBWR Licensing

*DOGB
NRO*

Reference:

1. MFN 08-560, Letter from U.S. Nuclear Regulatory Commission to Robert E. Brown, GEH, *Request For Additional Information Letter No. 219 Related To ESBWR Design Certification Application*, dated June 30, 2008

Enclosure:

1. Response to Portion of NRC Request for Additional Information Letter No. 219 Related to ESBWR Design Certification Application – Nuclear Boiler System- RAI Number 5.2-50 S03

cc: AE Cabbage USNRC (with enclosure)
RE Brown GEH/Wilmington (with enclosure)
DH Hinds GEH/Wilmington (with enclosure)
eDRF 0000-0089-0137 – RAI 5.2-50 S03

Enclosure 1

MFN 06-290 Supplement 4

**Response to Portion of NRC Request for
Additional Information Letter No. 219
Related to ESBWR Design Certification Application**

Nuclear Boiler System

RAI Number 5.2-50 S03

NRC RAI 5.2-50 S03

During the review of ESBWR DCD, Rev. 5, the staff identified that the applicant listed Code Case N-435-1 which was previously unconditionally endorsed by the NRC. The staff notes that Code Case N-435-1 was incorporated into the 1995 Addenda of ASME Code, Section XI and subsequently annulled by ASME on May 4, 2004. RG 1.147, Rev. 15, also lists this code case as being annulled. The staff requests that the applicant delete its reference to Code Case N-435-1. The staff notes that the annulment of N-435-1 by ASME Code predates ESBWR DCD Rev. 0.

GEH Response

The reference to ASME Code Case N-435-1 will be deleted.

DCD Impact

DCD Tier 2, Table 5.2-1 will be revised as noted in the attached markup.

ESBWR

26A6642AR Rev. 06

Design Control Document/Tier 2

Table 5.2-1
Reactor Coolant Pressure Boundary Components (Applicable Code Cases)

Number	Title	Applicable Equipment	Remarks
N-392-3	Procedure for Evaluation of the Design of Hollow Circular Cross-Section Welded Attachments on Classes 2 and 3 Piping, Section III, Division 1.	Piping	Accepted per RG 1.84
N-580-1	Use of Alloy 600 With Columbium Added, Section III, Division 1.	Core Support; Reactor Vessel (nozzles and stub tubes)	Accepted per RG 1.84
(Deleted)			
(Deleted)			
(Deleted)			
N-307-3	Revised Examination Volume for Class 1 Bolting, Table IWB-2500-1, Examination Category B-G-1, when the Examinations are Conducted from the Drilled Hole	RPV Studs	Accepted per RG 1.147
N-416-3	Alternative Rules for Hydrostatic Testing of Repair or Replacement of Class 2 Piping	Piping	Accepted Per RG 1.147
(Deleted) N-435-1	Alternative Examination Requirements for Vessels with Wall Thicknesses 2 in. or Less	Class 2 Vessels	Accepted Per RG 1.147
(Deleted)			