



GE Energy

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MFN 07-243

Docket No. 52-010

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U.S. Nuclear Regulatory Commission
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Subject: **Response to Portion of NRC Request for Additional Information
Letter No. 81 - Reactor Coolant Pressure Boundary Components -
RAI Number 5.2-60**

Enclosure 1 contains GE's response to the subject NRC RAI transmitted via the Reference 1 letter.

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

Sincerely,

James C. Kinsey
Project Manager, ESBWR Licensing

Reference:

1. MFN 06-462, Letter from U.S. Nuclear Regulatory Commission to David Hinds, *Request for Additional Information Letter No. 81 Related to ESBWR Design Certification Application*, November 14, 2006

Enclosure:

1. MFN 07-243 - Response to Portion of NRC Request for Additional Information Letter No. 81 - Related to ESBWR Design Certification Application – Reactor Coolant Pressure Boundary Components - RAI Number 5.2-60

cc: AE Cubbage USNRC (with enclosures)
BE Brown GE/Wilmington (with enclosures)
GB Stramback GE/San Jose (with enclosures)
eDRF 0000-0067-4778

Enclosure 1

MFN 07-243

Response to Portion of NRC Request for

Additional Information Letter No. 81

Related to ESBWR Design Certification Application

Reactor Coolant Pressure Boundary Components

RAI Number 5.2-60

NRC RAI 5.2-60:

Code Case N-634 has not been endorsed by the NRC staff. Provide a list of all materials that are attached to the containment liner that do not meet the provisions of CC-2511 regarding liner attachments. Provide a basis for using each material not meeting the requirements of CC-2511.

GE Response:

To provide flexibility for material selection in detail design for the design of liner attachments such as pipe supports, Code Case N-634 has been invoked in DCD Tier 2, Table 5.2-1. This code case permits any steel to be used as a structural attachment to the containment liner provided it is permitted to be attached to ASME Section III, Division 1 containment vessel shell under the rules of ASME Section III, NE-2190(a).

DCD Tier 2, Subsection 3.8.3.6, lists ASTM A709 HPS 70W as a material that is used for containment internal structures. An example of an attachment to the containment liner is shown on DCD Tier 2, Figure 3G.1-55. This material does not meet CC-2511 requirements and GE is currently pursuing a new Code Case to permit this material to be used as a structural attachment to containment liners.

DCD Impact:

No DCD changes will be made in response to this RAI.