



GE Energy

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MFN 06-459

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. 72 – Reactor Water Cleanup/Shutdown Cooling System –
RAI Number 5.4-19**

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

If you have any questions about the information provided here, please let me know.

Sincerely,

A handwritten signature in cursive script that reads "Kathy Sedney for".

David H. Hinds
Manager, ESBWR

Reference:

1. MFN 06-384, Letter from U.S. Nuclear Regulatory Commission to David Hinds, *Request for Additional Information Letter No. 72 Related to ESBWR Design Certification Application*, October 10, 2006

Enclosure:

1. MFN 06-459 – Response to Portion of NRC Request for Additional Information Letter No. 72– Reactor Water Cleanup/Shutdown Cooling System – RAI Number 5.4-19

cc: AE Cubbage USNRC (with enclosures)
GB Stramback GE/San Jose (with enclosures)
eDRF 0060-8053

Enclosure 1

MFN 06-459

Response to Portion of NRC Request for

Additional Information Letter No. 72

Related to ESBWR Design Certification Application

Reactor Water Cleanup/Shutdown Cooling System

RAI Number 5.4-19

NRC RAI 5.4-19

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?

GE Response

GDC 15 and 31 will be listed in DCD Tier 2, Subsection 5.4.8.

DCD Impact

The change to DCD Tier 2, Subsection 5.4.8 will be reflected in DCD Tier 2, Revision 3, as noted in the attached markup.