



GE Energy

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MFN 07-240

Docket No. 52-010

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

Subject: **Response to Portion of NRC Request for Additional Information  
Letter No. 70 Related to ESBWR Design Certification Application –  
Standby Liquid Control – RAI Number 14.3-84**

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 regarding the information  
provided here, please contact me.

Sincerely,

James C. Kinsey  
Project Manager, ESBWR Licensing

Reference:

1. MFN 06-382, Letter from U.S. Nuclear Regulatory Commission to David Hinds, *Request for Additional Information Letter No. 70 Related to ESBWR Design Certification Application*, October 10, 2006

Enclosure:

1. MFN 07-240 – Response to Portion of NRC Request for Additional Information Letter No. 70 Related to ESBWR Design Certification Application – Standby Liquid Control – RAI Number 14.3-84

cc: AE Cubbage USNRC (with enclosures)  
DH Hinds GE (with enclosures)  
RE Brown GE (w/o enclosures)  
eDRF 0000-0067-3673

**Enclosure 1**

**MFN 07-240**

**Response to Portion of NRC Request for**

**Additional Information Letter No. 70**

**Related to ESBWR Design Certification Application**

**Standby Liquid Control – RAI Number 14.3-84**

**NRC RAI 14.3-84**

*The following ITAAC should be added to Table 2.2.4-2, ITAAC For The Standby Liquid Control System:*

- 13. Existing ITAAC in the SLC does not check for the flow rate of the as built SLC system into the RPV. This design commitment should also identify the reactor pressure at which the flow rate is delivered.*
- 14. Manual initiation of the SLC from the main control room.*
- 15. Both divisions of the SLC system are automatically initiated during an ATWS event.*

**GE Response**

Tier 1, Rev. 3 addresses the concerns in RAI 14.3-84. The Item 13 concerns are addressed in ITAAC 3 and 4. The Item 14 concern is addressed in DD Instrumentation Bullet 4 in conjunction with ITAAC 8. The Item 15 concern is addressed in ITAAC 2.f.

**DCD Impact**

No additional DCD change will be made in response to this RAI.