

GE-Hitachi Nuclear Energy Americas LLC

James C. Kinsey
Project Manager, ESBWR Licensing

PO Box 780 M/C A-55
Wilmington, NC 28402-0780
USA

T 910 675 5057
F 910 362 5057
jim.kinsey@ge.com

MFN 07-465

Docket No. 52-010

August 22, 2007

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. 100 Related to ESBWR Design Certification Application –
Backup Power Supply – RAI Number 13.3-7**

Enclosure 1 contains GEH'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

D068

NRO

Reference:

1. MFN 07-327, Letter from U.S. Nuclear Regulatory Commission to Robert E. Brown, *Request for Additional Information Letter No. 100 Related to ESBWR Design Certification Application*, May 30, 2007

Enclosure:

1. MFN 07-465 – Response to Portion of NRC Request for Additional Information Letter No. 100 Related to ESBWR Design Certification Application – Backup Power Supply – RAI Number 13.3-7

cc: AE Cubbage USNRC (with enclosures)
DH Hinds GEH (with enclosures)
RE Brown GEH (w/o enclosures)
eDRF 0000-0072-6324

Enclosure 1

MFN 07-465

Response to Portion of NRC Request for

Additional Information Letter No. 100

Related to ESBWR Design Certification Application

Backup Power Supply – RAI Number 13.3-7

NRC RAI 13.3-7

The applicant has inappropriately included information in DCD Tier 2, Rev. 3, Section 13.3.3.2 concerning backup power supply for non-portable communication equipment associated with requirements in 10 CFR 73.55(e) and (f). This information would more appropriately be addressed in Section 13.6. The DCD should be revised accordingly.

GEH Response

The information in DCD Tier 2, Rev. 3, Subsection 13.3.3.2 concerning backup power supply for non-portable communication equipment associated with 10 CFR 73.55(e) and (f) is erroneous. The non-portable communications that are referred to in 10 CFR 73.55(e) is the communications between the security alarm stations, the main control room, and local law enforcement agencies. This will be addressed in revised subsections 13.6.1.1.4 and 13.6.1.1.7 based on GEH response to RAI 13.6-1 S01 (currently in process).

The requirements of 10 CFR 73.55(e) and (f) apply to Security systems and programs not appropriate to the EOF. Subsection 13.3.3.2 will be revised to delete the requirements in 10 CFR 73.55(e) and (f) as applicable to the EOF.

DCD Impact

DCD Tier 2, Subsection 13.3.3.2, is to be revised as shown on the attached DCD markup.

26A6642BL Rev. 04

ESBWR

Design Control Document/Tier 2

13.3.3.2 Identification of EOF and Communication Interfaces with Control Room and TSC

The EOF is not within the scope of the ESBWR Standard Plant. It is the responsibility of the COL applicant to identify the EOF and the communication interfaces for inclusion in the detailed design of the TSC and control room. The detailed requirements are provided in Section 4 of NUREG-0696.

The COL applicant will identify the EOF and the communication interfaces for inclusion in the detail design of the TSC and control room.

The COL applicant is responsible for the design of the communication system ~~and the backup power supply for non-portable communication equipment~~ located in the EOF in accordance with ~~10 CFR 73.55(e), 10 CFR 73.55(f)~~ and NUREG-0696.

13.3.3.3 Decontamination Facilities

In a building adjacent to the main change rooms, decontamination facilities for use by on-site individuals will be provided. Showers and waste collection equipment will be used to ensure spread of contamination is controlled and disposal cost of waste material is minimized. The central location is convenient to health physics support personnel who will supervise this activity.

The COL applicant will provide decontamination facilities and supplies at the site for decontamination of on-site individuals in the service building adjacent to the main change rooms.

References

- 13.3-1 NEDO-33217, Man Machine Interface System and HFE Implementation Plan. Revision 1, January 2006.
- 13.3-2 NUREG-0696, Functional Criteria for Emergency Response Facilities, December 1980.