

GE-Hitachi Nuclear Energy Americas LLC

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Docket No. 52-010

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. 103 Related to ESBWR Design Certification Application
Control Building Ventilation RAI Number 9.4-35.**

The purpose of this letter is to submit the GE-Hitachi Nuclear Energy Americas (GEH) response to the U.S. Nuclear Regulatory Commission (NRC) Request for Additional Information (RAI) sent by NRC letter dated July 23, 2007 (Reference 1). GEH response to RAI Number 9.4-35 is addressed in Enclosure 1.

Should you have any questions about the information provided here, please contact.

Sincerely,

Handwritten signature of Kathy Sedney in cursive script.

James C. Kinsey
Vice President, ESBWR Licensing

Handwritten initials 'DOB8' and 'NRO' in the bottom right corner.

Reference:

1. NRC letter to Robert E. Brown, Senior Vice President, Regulatory Affairs, *Request For Additional Information Letter No. 103 Related To Control Room Ventilation*, dated July 23, 2007 (MFN 07-414).

Enclosure:

1. Response to Portion of NRC Request for Additional Information Letter No. 103 Related to ESBWR Design Certification Application Control Building Ventilation RAI Number 9.4-35.

cc: AE Cubbage USNRC (with enclosure)
GB Stramback GEH/San Jose (with enclosure)
RE Brown GEH/Wilmington (with enclosure)
eDRF 0000-0074-1870

Enclosure 1

MFN 07-525

Response to Portion of NRC Request for

Additional Information Letter No. 103

Related to ESBWR Design Certification Application

Control Building Ventilation

RAI Number 9.4-35

MFN 07-525
Enclosure 1

NRC RAI 9.4-35

In DCD Tier 2, Revision 3, Section 9.4.1, the applicant states that the emergency filter unit (EFU) filter units will be tested in accordance with Regulatory Guide 1.52. The staff noted that in Section 5.5.13 of DCD Tier 2, Revision 3 that the criteria for the in-place and by-pass leakage test was specified as 1.0 percent. Regulatory Guide 1.52 criteria for the in-place and by-pass leakage test is 0.05 percent.

Please explain the inconsistency between DCD Section 5.5.13 test criteria and the regulatory guide and either justify the use of 1.0 percent or make appropriate changes to the DCD.

GEH Response

Up through Revision 3 Chapter 16, ventilation filter testing acceptance criteria were presented in Technical Specification (TS) 5.5-13 as DCD Open Items, as were the references to the governing documents. As stated in DCD Section 9.4.1, filter test criteria will comply with Regulatory Guide 1.52, Design, Inspection, and Testing criteria for Air Filtration and Absorption Units of Post-Accident Engineered Safety-Feature Atmosphere Cleanup Systems in Light-Water-Cooled Nuclear Power Plants, Revision 3. Therefore, DCD Chapter 16, TS 5.5.13 will be revised to reflect the Regulatory Guide 1.52 criteria of 0.05% for the in-place and bypass test of the emergency filter units.

DCD Impact

DCD Tier # 2, Chapter 16 Section 5.5.13 has been revised in Revision 4.