



HITACHI

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U.S. Nuclear Regulatory Commission
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Subject: ESBWR Design Certification Application — Non-RAI Related Changes for DCD Tier 2 Chapter 16 (Technical Specifications)

The purpose of this letter is to submit an advance copy of non-RAI related changes that GE Hitachi Nuclear Energy (GEH) will incorporate in the next revision to the ESBWR DCD Tier 2 Chapter 16 Technical Specifications.

Specifically, the changes noted below will be incorporated in the Revision 6 DCD, as shown in the Enclosure 1 markups:

1. Chapter 16, Technical Specification (TS) 3.3.7.1, Table 3.3.7.1-1 is revised to include SR 3.3.7.1.4 in the Surveillance Requirements column for Function 1 and Function 2. This change was described in the Change List that was provided with the Reference 1 submittal of the DCD; however, it was inadvertently not included in the Revision 5 Chapter 16 pages.
2. Chapter 16, TS 5.5.9.b is revised to change the value for P_a from "282.9 kPaG (41.1 psig)" to "310 kPaG (45 psig)," consistent with the changes made in Revision 5 DCD subsection 6.2.6 and Table 6.2-1. This change was described in the Change List that was provided with the Reference 1 submittal of the DCD; however, it was inadvertently not included in the Revision 5 Chapter 16 pages.

If you have any questions or require additional information regarding the information provided here, please contact me.

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MRO

Sincerely,



Richard E. Kingston
Vice President, ESBWR Licensing

Reference:

1. MFN 08-487, Letter from James C. Kinsey to U.S. Nuclear Regulatory Commission, *GE Hitachi Nuclear Energy - ESBWR Standard Plant Design Revision 5 to Design Control Document - Tier 1 and Tier 2*, June 1, 2008.

Enclosure:

1. MFN 08-799 – DCD Markups for Chapter 16 (Technical Specifications)

cc: AE Cabbage USNRC (with enclosure)
DH Hinds GEH (with enclosure)
RE Brown GEH (with enclosure)
eDRFs 0090-5439, 0089-7573

Enclosure 1

MFN 08-799

DCD Markups for Chapter 16 (Technical Specifications)

Table 3.3.7.1-1 (page 1 of 1)
 Control Room Habitability Area Heating, Ventilation, and Air Conditioning Subsystem
 (CRHAVS) Instrumentation

COL 16.0-2-H 3.3.7.1-1	FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
1.	Control Room Air Intake Radiation – High (per train)	1,2,3,4,5 ^(a) ,6 ^(a)	SR 3.3.7.1.1 SR 3.3.7.1.2 SR 3.3.7.1.3 <u>SR 3.3.7.1.4</u>	≤ [Gy/s (mR/hr)]
2.	Extended Loss of AC Power (per train)	1,2,3,4,5 ^(a) ,6 ^(a)	SR 3.3.7.1.1 SR 3.3.7.1.2 SR 3.3.7.1.3 <u>SR 3.3.7.1.4</u>	≥ [volts]

(a) During operations with a potential for draining the reactor vessel (OPDRVs).

5.5 Programs and Manuals

5.5.9 Containment Leakage Rate Testing Program (continued)

2. The visual examination of the steel liner plate inside containment intended to fulfill the requirements of 10 CFR 50, Appendix J, Option B testing shall be performed in accordance with the requirements of and frequency specified by ASME Code Section XI, Subsection IWE, except where relief has been authorized by the NRC.

COL 16.0-1-A
5.5.9-1

[3. . .]

- b. The calculated peak containment internal pressure for the design basis loss of coolant accident, P_a , is ~~282.93~~10 kPaG (41.145 psig). The containment design pressure is 310 kPaG (45 psig).
- c. The maximum allowable containment leakage rate, L_a , at P_a , shall be 0.4% of containment air weight per day.
- d. Leakage rate acceptance criteria are:
 1. Containment leakage rate acceptance criterion is $\leq 1.0 L_a$ for leakage from Containment. During the first unit startup following testing in accordance with this program, the leakage rate acceptance criteria are $< 0.60 L_a$ for the Type B and C tests and $\leq 0.75 L_a$ for Type A tests.
 2. Air lock testing acceptance criteria are:
 - a) Overall air lock leakage rate is $\leq 0.05 L_a$ when tested at $\geq P_a$.
 - b) For each door, leakage rate is $\leq 0.01 L_a$ when pressurized to ≥ 10 psig.
 3. Passive Containment Cooling System (PCCS) leakage rate acceptance criterion is $\leq 0.025 L_a$.
- e. The provisions of SR 3.0.3 are applicable to the Containment Leakage Rate Testing Program.
- f. Nothing in these Technical Specifications shall be construed to modify the testing Frequencies required by 10 CFR 50, Appendix J.