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

Subject: **Transmittal of ESBWR DCD Tier 2 Markup Related to GEH Corrective Action – Chapter 11**

The purpose of this letter is to submit a markup to the ESBWR DCD Tier 2, Chapter 11, resulting from GEH corrective action.

The Chapter 11 markup clarifies that Table 11.1-4b should indicate that the I-131 water concentration is 1.2E-04 MBq/gm, not 1.2E04 MBq/gm as currently shown.

Enclosure 1 provides the DCD Tier 2 markup to be incorporated into the DCD, Rev. 8.

If you have any questions or require additional information, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Richard E. Kingston". The signature is written in a cursive, flowing style.

Richard E. Kingston
Vice President, ESBWR Licensing

Enclosure:

1. Transmittal of ESBWR DCD Tier 2 Markup Related to GEH Corrective Action – Chapter 11 – DCD Markup

cc: AE Cubbage USNRC (with enclosure)
 JG Head GEH/Wilmington (with enclosure)
 DH Hinds GEH/Wilmington (with enclosure)
 TL Enfinger GEH/Wilmington (with enclosure)
 eDRF Section 0000-0120-4746

Enclosure 1

MFN 10-196

**Transmittal of ESBWR DCD Tier 2 Markups Related to GEH
Corrective Action
Chapter 11**

DCD Markup

Table 11.1-4b

Normal Operational Iodine Radioisotopes in Reactor Water and Steam

Isotope	Decay Constant (per hour)	Water Concentration		Steam Concentration	
		(MBq/gm)	(μ Ci/gm)	(MBq/gm)	(μ Ci/gm)
I-131	3.59E-3	1.2E-04	3.3E-03	2.5E-06	6.6E-05
I-132	3.03E-1	8.6E-04	2.3E-02	1.7E-05	4.7E-04
I-133	3.33E-2	8.0E-04	2.2E-02	1.6E-05	4.3E-04
I-134	7.91E-1	1.3E-03	3.6E-02	2.7E-05	7.2E-04
I-135	1.05E-1	1.1E-03	2.8E-02	2.1E-05	5.7E-04