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

Subject: **Transmittal of ESBWR Tier 2, Chapter 2 DCD Markups Related to GEH Internal Corrective Action**

The purpose of this letter is to submit markups to the ESBWR DCD, Tier 2 Subsection 3.8.3.6.6 Miscellaneous Platforms, which are the result of a GEH internal review of applicable codes and standards. This transmittal letter closes out a GEH Internal Corrective Action. These minor changes will be incorporated into DCD Revision 7.

In DCD Revision 6, Subsection 3.8.3.6.6 - Miscellaneous Platforms, the wrong reference is used for bolt, stud and nut material. The ASTM A325 specification is for high strength bolting material normally used for structural connections. This specification is for high strength bolts only and not for studs or nuts. Similarly, ASTM A307 specification is for carbon steel bolts and studs (threaded rod). This specification is not for carbon steel nuts.

The revised pages to Subsection 3.8.3.6.6 are contained in Enclosure 1.

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

Sincerely,

Richard E. Kingston  
Vice President, ESBWR Licensing

Enclosure:

1. Document Improvements and Specific Changes to DCD Related to ESBWR Design Certification Application DCD Tier 2, Subsection 3.8.3.6.6 - Miscellaneous Platforms.

cc: AE Cubbage USNRC (with enclosures)  
JG Head GEH/Wilmington (with enclosures)  
DH Hinds GEH/Wilmington (with enclosures)  
HA Upton GEH/San Jose (with enclosures)  
eDRF Section 0000-0112-6396

**Enclosure 1**

**MFN 10-052**

**Document Improvements and Specific Changes to DCD**

**Related to ESBWR Design Certification Application**

**DCD Tier 2,**

**Subsection 3.8.3.6.6 - Miscellaneous Platforms**

<i>Item</i>	<i>Specification</i>
<i>Pool wall plate</i>	<i>ASTM A-709 HPS 70W<sup>†</sup> with A-240 Type 304L Clad</i>
<i>Structural support beam</i>	<i>ASTM A-709 HPS 70W<sup>†</sup>, ASTM A-709 HPS 70W<sup>†</sup> with A-240 Type 304L Clad</i>
<i>Stiffeners</i>	<i>ASTM A-36</i>
<sup>†</sup> <i>ASME Code Case N-763</i> ]*	

\*Text sections that are bracketed and italicized with an asterisk following the brackets are designated as Tier 2\*. Prior NRC approval is required to change.

### 3.8.3.6.6 Miscellaneous Platforms

[*The materials conform to all applicable requirements of ANSI/AISC N690 for safety-related and AISC-ASD or AISC-LFRD for nonsafety-related and comply with the following:*

<i>Item</i>	<i>Specification</i>
<i>Structural steel and connections</i>	<i>ASTM A-36, ASTM A-992 Wide Flanges, A-500 Gr B-Tube Steel</i>
<i>High strength structural steel plates</i>	<i>ASTM A-572, Gr. 50 or Gr. 65 (ASME Code Case N-632)</i>
<i>High strength bolting material</i> <del><i>Bolts, studs, and nuts</i></del> [dia. $\geq$ 19 mm (3/4 in)]	<i>ASTM A-325</i>
<i>Carbon steel bolting and threaded rod material</i> <del><i>Bolts, studs, and nuts</i></del> [dia. $\leq$ 19 mm (3/4 in)]	<i>ASTM A-307</i> ]*

\*Text sections that are bracketed and italicized with an asterisk following the brackets are designated as Tier 2\*. Prior NRC approval is required to change.

### 3.8.3.7 Testing and In-service Inspection Requirements

A formal program of testing and in-service inspection is not planned for the internal structures except the diaphragm floor and vent wall. The other internal structures are not directly related to the functioning of the containment system; therefore, no testing or inspection is performed.

However, during the operating life of the plant the condition of these other internal structures is monitored per 10 CFR 50.65 in accordance with Section 1.5 of RG 1.160.

Testing and in-service inspection of the diaphragm floor and vent wall are directly related to the functioning of the containment system and are discussed in Subsection 3.8.1.7.