

From: Kimberly Manzione <K.Manzione@holtec.com>
Sent: Monday, July 18, 2016 8:29 AM
To: Chen, Yen-Ju
Subject: [External_Sender] RE: Query: HI-STORM FW Amd 3 Review

Yen,

Holtec is NOT asking to store intact fuel in DFCs in the HI-STORM FW in any amendment. There would be significantly more changes to the CoC and appendices if that was the case.

All we wanted to do was ensure that the required soluble boron in App A matched the FSAR table, as otherwise it led to confusion, so we chose the most conservative number from the FSAR.

Thanks,
Kim

From: Chen, Yen-Ju [mailto:Yen-Ju.Chen@nrc.gov]
Sent: Thursday, July 14, 2016 12:16 PM
To: Kimberly Manzione
Subject: Query: HI-STORM FW Amd 3 Review

Good morning, Kim:

When I called you last week, I mentioned that we are working on RAI round 2 for the FW Amendment 3. I would like to confirm with you on one item, so we can be more specific on our questions.

In Holtec's response to RAI 6-1, it states:

"The additional option for loading of intact fuel assembly class 16x16A in DFCs in all 37 locations of the MPC-37 basket was added in the application for HI-STORM FW Amendment 2 (1032-2), in support of the HI-STORM UMAX Amendment 2 application (1040-2). This option is discussed in Subsection 6.3.1 and the results are presented in Table 6.1.1. These updated FSAR pages were previously submitted to the staff with the submittal of HI-STORM FW Amendment 2 (Holtec Letter 5018034). Due to the presence of the DFCs in all basket walls the reactivity was increased in comparison with the reference model with the 16x16A array/class. Thus, to maintain a consistent substantial safety margin, the soluble boron concentration has been increased from 1500 to 1600 ppm. For simplicity, this bounding concentration of 1600 ppm is provided in the technical specification for all 14x14 and 16x16 fuel assemblies. This is conservative and increases the safety margin for all those fuel classes, since based on the calculations presented in Table 6.1.1 a lower boron concentration is sufficient to maintain the reactivity below the regulatory requirement. The application for HI-STORM FW Amendment 2 did not properly include the update to CoC Appendix A to match the FSAR table, and so it was included in this amendment for completeness."

In Holtec's request for FW Amendment 2, it states:

"Storage of intact fuel in DFCs in the HI-STORM FW system is not permitted; accordingly the HI-STORM FW CoC 1032 has not been modified for this change. The thermal evaluation has been performed under the HI-STORM UMAX Docket, and is submitted with the CoC 1040 Amendment 2 request."

Please confirm that Holtec does want to include the loading of intact fuel assembly class 16x16A in DFCs in all 37 locations of the MPC-37 basket in CoC under FW Amendment 3. We will prepare our RAIs in accordance with your response.

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From: Kimberly Manzione <K.Manzione@holtec.com>

To: "Chen, Yen-Ju" <Yen-Ju.Chen@nrc.gov>

Thread-Topic: Query: HI-STORM FW Amd 3 Review

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