



Holtec Center, One Holtec Drive, Marlton, NJ 08053

Telephone (856) 797-0900

Fax (856) 797-0909

June 14, 2016

Mr. Mark Lombard
Division of Spent Fuel Management
Office of Nuclear Material Safety and Safeguards

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Docket No. 72-1014, Certificate of Compliance (CoC) No. 1014

Subject: Holtec International HI-STORM 100 Multipurpose Canister Storage System
Amendment Request 1014-12

Dear Mr. Lombard:

We request DSFM's review of LAR#12 for our HI-STORM 100 system which makes two much needed but technically exiguous changes to the FSAR to serve existing users of the HI-STORM system. The proposed changes include a new heat load pattern for MPC-68M to enable a more efficient packaging of fuel, and addition of a new material type to the Alloy X family of materials previously authorized by the NRC. The latter is intended to give additional flexibility with regard to canister material selection with an eye to future aging management efforts. The limited scope of this submittal is reflected in the extent of required changes to the FSAR, a summary of which is contained in Attachment 1. The proposed changes do not reduce any of the safety metrics including the computed margins of safety, operational flexibility or radiation protection features imbedded in the HI-STORM 100 system.

Attachments 2 through 4 contain changes for the CoC and its appendices. Attachment 5 provides the proposed changed pages of the HI-STORM 100 FSAR, which supports the LAR. All proposed changes in Attachments 2 through 5 are provided in mark-up format to facilitate the Staff's review. Note that the marked changes are only those associated with LAR 1014-12. Changes associated with previous amendments or revisions to amendment, up to and including HI-STORM 100 Amendment 11, are included but not marked as changes, since that LAR request is already under NRC review.



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If you have any questions please contact me at 856-797-0900 ext. 3951.

Sincerely,

Kimberly Manzione
Licensing Manager,
Holtec International

cc: (via email)
Ms. Yen Chen, USNRC
Mr. Jose Cuadrado, USNRC
Mr. John McKirgan, USNRC

Attachments:

- Attachment 1: Summary of Proposed Changes for HI-STORM 100 LAR 1014-12
- Attachment 2: Proposed CoC 1014 Amendment 12
- Attachment 3: Proposed CoC 1014 Amendment 12 Appendix A
- Attachment 4: Proposed CoC 1014 Amendment 12 Appendix B
- Attachment 5: HI-STORM 100 FSAR Proposed Changed pages