



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001**

October 23, 2015

Ms. Kimberly Manzione, P.E.  
Licensing Manager  
Holtec International  
Holtec Center  
One Holtec Drive  
Marlton, NJ 08053

**SUBJECT: HI-STORM UMAX CANISTER STORAGE SYSTEM AMENDMENT REQUEST  
NO. 2, REQUEST FOR ADDITIONAL INFORMATION NO. 1 (TAC NO. L25007)**

Dear Ms. Manzione:

By letter dated March 31, 2015, as supplemented on June 19, 2015, Holtec International (Holtec) submitted an amendment request to the U.S. Nuclear Regulatory Commission (NRC) to revise Certificate of Compliance (CoC) No. 1040 for the HI-STORM UMAX Canister Storage System. The NRC staff has reviewed your application and has determined that additional information is required to complete its detailed technical review. The request for additional information is identified in the enclosure to this letter. We request that you provide the information by November 30, 2015. Please inform us in writing at your earliest convenience, but no later than November 15, 2015, if you are not able to provide the information by the requested date. You should also include a new proposed submittal date and the reasons for the delay to assist us in re-scheduling your review.

Please reference Docket No. 72-1040 and TAC No. L25007 in future correspondence related to this licensing action. If you have any questions, please contact me at (301) 415-6933.

Sincerely,

**/RA/ W. C. Allen For**

John M. Goshen, P.E., Project Manager  
Spent Fuel Licensing Branch  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Docket No.: 72-1040

TAC No.: L25007

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**ADAMS: ML15302A016**

File location: G:\SFST\HI-STORM UMAX\Amendment 2\RAI 1\RAI 1.docx

<b>OFC:</b>	DSFM	DSFM	DSFM	DSFM	DSFM	DSFM
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<b>DATE:</b>	10/22 /15	10/22 /15	10/23 /15		10/23/15	10/23/15

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**REQUEST FOR ADDITIONAL INFORMATION  
HOLTEC INTERNATIONAL  
DOCKET NO. 72-1040  
AMENDMENT NO. 2  
HI-STORM UMAX CANISTER STORAGE SYSTEM**

By letter dated March 31, 2015, as supplemented on June 19, 2015, Holtec International submitted an amendment request to the U.S. Nuclear Regulatory Commission (NRC) to revise Certificate of Compliance (CoC) No. 1040 for the HI-STORM UMAX Canister Storage System. The NRC staff reviewed the application in accordance with NUREG-1536, Revision, "Standard Review Plan for Spent Fuel Dry Storage Systems at a General License Facility."

**Chapter 2 Principal Design Criteria**

- 2-1 Clarify if the effective thermal properties used in the thermal evaluation bound all fuel types, as described in the Final Safety Analysis Report (FSAR).

Page 2-32 of the FSAR states that some assemblies have up to 8 fuel rods removed or replaced by guide tubes. Removal of fuel rods may result in effective thermal properties that may not be bounded by previous calculated effective values.

This information is needed to assure compliance with 10 CFR 72.236(f).

- 2-2 Clarify what the permissible design temperature limits are for the damaged fuel containers.

FSAR Table 2.3.7 states that either 752°F or 1058°F is the normal and mechanical accident condition design temperature limits. The information provided in this table appears to be confusing. The application should clearly state the limits that are applicable for different conditions.

This information is needed to assure compliance with 10 CFR 72.236(f).

ENCLOSURE