



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

September 8, 2015

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

SUBJECT: CERTIFICATE OF COMPLIANCE NO. 1040, AMENDMENT NO. 1 FOR THE
HI-STORM UMAX CASK STORAGE SYSTEM (TAC NO. L24938)

Dear Ms. Manzione:

By letter dated July 11, 2014, as supplemented October 31, 2014, Holtec International (Holtec) submitted an application to the U.S. Nuclear Regulatory Commission to amend the HI-STORM UMAX Canister Storage System under 10 CFR Part 72 Subpart K, General License for Storage of Spent Fuel at Power Reactor Sites. Amendment No. 1 provides a seismically enhanced version of the HI-STORM UMAX Canister Storage System to be used by general license users that are located in areas with higher seismic demands than those analyzed previously. Along with the revised structural evaluation, there are three minor physical design changes incorporated to ensure the structural integrity of the amended system. These are:

- A. Addition of a hold-down system to the closure lid to prevent its uplift during the seismic event.
- B. The controlled low strength fill material interstitial space between the cavity enclosure container (referred to as Space A in the supplied revised final safety analysis report Figure 2.4.4), is replaced with plain concrete with a minimum compressive strength of 3000 psi.
- C. The multi-purpose canister guides are strengthened to increase their load bearing capacity, and their nominal gap with the MPC is engineered to be made smaller than the original HI-STORM UMAX design.

Additionally, the staff has provided editorial and administrative corrections to CoC No. 1040, Amendment No. 1, Appendix B, Technical Specifications (TS). Holtec agreed to these changes in correspondence dated September 2, 2015, (ADAMS Accession No. ML15246A064).

The amendment, when codified through rulemaking, will be denoted as CoC No. 1040, Amendment No. 1.

As stated in the Federal Register (80 FR 53691, 9/8/15), the effective date of this CoC is September 8, 2015. The NRC's safety evaluation report (SER) for this CoC (including Appendices A and B, Technical Specifications) are enclosed. This certificate constitutes the approval and conditions for use of HI-STORM UMAX Canister Storage System for storage of spent nuclear fuel under the general licensing provisions of 10 CFR 72.210.

K. Manzione

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If you have any questions regarding this amended certificate, please contact me at (301) 415-6933.

Sincerely,

/RA J. Vera 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.: L24938

Enclosures:

1. CoC No. 1040, Amendment No. 1
2. Safety Evaluation Report

If you have any questions regarding this amended certificate, please contact me at (301) 415-6933.

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John M. Goshen, P.E., Project Manager
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- 1. CoC No. 1040, Amendment No. 1
- 2. Safety Evaluation Report

This closes out TAC L24938

ADAMS Package: **ML15252A426**

OFC	SFST	SFST	SFST	SFST
NAME	WWheatley	JGoshen	JVera for MSampson	JVera for JGoshen
DATE	9/2/2015	9/1/2015	9/8/2015	9/8/2015

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