



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

February 10, 2016

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

SUBJECT: CERTIFICATE OF COMPLIANCE NO. 1014, AMENDMENT NO. 8, REVISION NO. 1 FOR THE HI-STORM 100 CASK SYSTEM (TAC NO. L24777)

Dear Ms. Manzione:

By letter dated August 21, as supplemented December 20, 2013, and February 28, 2014, Holtec International (Holtec) submitted a revision request to the U. S. Nuclear Regulatory Commission (NRC) for the HI-STORM 100 Cask System Certificate of Compliance (CoC) No. 1014, Amendment No. 8 under 10 CFR Part 72 Subpart K, General License for Storage of Spent Fuel at Power Reactor Sites. The revision:

- (1) Changes the Burnup/Cooling Time limits for thimble plug devices (TPDs),
- (2) Changes the Metamic-HT testing requirements,
- (3) Changes the Metamic-HT minimum guaranteed values (MGVs), and
- (4) Updates fuel definitions to allow boiling water reactor (BWR) fuel affected by certain corrosion mechanisms within specific guidelines to be classified as undamaged fuel.

The revision, when codified through rulemaking, will be denoted as CoC No. 1014, Amendment No. 8, Revision No. 1.

As stated in the Federal Register (80 FR 49887, 8/18/15), the effective date of this CoC is February 16, 2016. 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 100 Cask System for storage of spent nuclear fuel under the general licensing provisions of 10 CFR 72.210. Revision No. 1 to CoC No. 1014, Amendment No. 8 supersedes CoC No. 1014, Amendment No. 8. The NRC requests that Holtec provide Revision No. 1 to general licensed users of CoC No. 1014, Amendment No. 8 for implementation. Holtec and applicable general licensed users of CoC No. 1014, Amendment No. 8, should incorporate changes or perform applicable site evaluations due to Revision No. 1 in accordance with 10 CFR 72.212 no later than 180 days from February 16, 2016. The NRC requests that Holtec notify the NRC within 30 days of completing its implementation changes along with providing a listing of general licensees impacted by Revision No. 1.

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

Sincerely,

**/RA/**

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.: 72-1014

TAC No.: L24777

Enclosures:

1. CoC No. 1014, Amendment No. 8, Revision No. 1
2. Safety Evaluation Report

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Sincerely,

**/RA/**

John M. Goshen, P.E., Project Manager  
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- 1. CoC No. 1014, Amendment No. 8, Revision No. 1
- 2. Safety Evaluation Report

This closes out TAC L24777

**ADAMS Package: ML16041A233**

File Directory: G:\SFST\HI-STORM 100\Amendment 8\Revision 1\Final\1014- A8 R1 transmittal.doc  
 \1014- A8 R1CoC.doc  
 \1014- A8 R1App A.pdf  
 \1014- A8 R1App B.pdf  
 \1014- A8 R1App A-100U.pdf  
 \1014- A8 R1App B-100U.pdf  
 \1014- A8 R1 SER.doc

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