



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

March 21, 2016

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

SUBJECT: CERTIFICATE OF COMPLIANCE NO. 1014, AMENDMENT NO. 9, REVISION NO. 1 FOR THE HI-STORM 100 CASK SYSTEM (TAC NO. L24935)

Dear Ms. Manzione:

By letter dated July 1, 2014, Holtec International (Holtec) submitted a revision request to the U.S. Nuclear Regulatory Commission (NRC) for the HI-STORM 100 Certificate of Compliance (CoC) No. 1014, Amendment No. 9. The proposed changes include the following:

- (1) Change Burnup/Cooling Time limits for thimble plug devices (TPDs),
- (2) Change Metamic-HT testing requirements,
- (3) Change Metamic-HT minimum guaranteed values (MGVs),
- (4) Update 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. 9, Revision No. 1.

As stated in the Federal Register (81 FR 371, 1/6/16), the effective date of this CoC is March 21, 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. 9 supersedes CoC No. 1014, Amendment No. 9. The NRC requests that Holtec provide Revision No. 1 to general licensed users of CoC No. 1014, Amendment No. 9 for implementation. Holtec and applicable general licensed users of CoC No. 1014, Amendment No. 9, 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 March 21, 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.: L24935

Enclosures:

1. CoC No. 1014, Amendment No. 9,  
Revision No. 1
2. Safety Evaluation Report

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.: L24935

Enclosures:

- 1. CoC No. 1014, Amendment No. 9, Revision No. 1
- 2. Safety Evaluation Report

This closes out TAC L24935

**ADAMS Package: ML16056A529**

Transmittal – ML16056A553  
 CoC 1014 A9 R1 CoC - ML16056A555  
 CoC 1014 A9 R1 App A- ML16056A554  
 CoC 1014 A9 R1 App B- ML16056A559  
 CoC 1014 A9 R1 App A-100U ML16056A556  
 CoC 1014 A9 R1 App B-100U ML16056A557  
 CoC 1014 A9 R1 SER ML16056A558

File Directory: G:\SFST\HI-STORM 100\Amendment 9\Revision 1\Final\CoC 1014 A9 R1 transmittal.doc  
 \CoC 1014 A9 R1 CoC.doc  
 \CoC 1014 A9 R1 App A.pdf  
 \CoC 1014 A9 R1 App B.pdf  
 \CoC 1014 A9 R1 App A-100U.pdf  
 \CoC 1014 A9 R1 App B-100U.pdf  
 \CoC 1014 A9 R1 SER.doc

<b>OFC</b>	SFST	SFST	SFST			
<b>NAME</b>	WWheatley	JGoshen	SRuffin			
<b>DATE</b>	3/17/2016	2/24/2016	3/21/2016			

**OFFICIAL COPY**