May 29, 2007

Mr. K. P. Singh
President and CEO
Holtec International
555 Lincoln Drive West
Marlton, NJ 08053

SUBJECT: AMENDMENT NO. 3 TO CERTIFICATE OF COMPLIANCE NO. 1014 FOR THE HOLTEC INTERNATIONAL HI-STORM 100 CASK SYSTEM

Dear Mr. Singh:

As requested by your application dated November 7, 2005, as supplemented, enclosed is Certificate of Compliance (CoC) No. 1014, Amendment No. 3 for the HI-STORM 100 System. Changes made to the certificate are indicated by vertical lines in the right margin. As stated in the Federal Register (72 FR 20712, April 26, 2007), the effective date of this certificate is May 29, 2007. We request that you update and submit a copy of the final safety analysis report to conform to the certificate, within 60 days.

Amendment No. 3 to CoC No. 1014 constitutes U.S. Nuclear Regulatory Commission (NRC) approval of the following changes to the HI-STORM 100 System:

- Modification of the CoC to incorporate minor editorial changes.
- Modification of the Technical Specifications (TS) to eliminate the requirement to perform helium leak rate testing on vent and drain port cover plates if the associated welds are performed with at least a two weld passes and with liquid penetrant examinations of the root and final weld passes.
- Modification of the TS to eliminate cooling of the Multi-Purpose Canister (MPC) cavity prior to reflood with water (as part of cask unloading operations). The existing helium exit temperature requirement is to be replaced by a requirement on the MPC cavity pressure.
- Modification of the TS to allow linear interpolation between minimum soluble born concentrations of 4.1 wt% and 5.0 wt% fuel enrichment in the MPC-32/32F.
- Modification of the definition of fuel debris to permit containers or structures that provide support to loose fuel assembly parts and non-fuel hardware to be stored as fuel debris in damaged fuel containers (DFC's).
- Modification of the definition of non-fuel hardware to include primary and secondary neutron sources (neutron source assemblies). Modify Tables 2.1-1 and 2.1-8 in Appendix B of the CoC to permit storage of neutron source assemblies in the MPC-24, MPC-24E/EF, and MPC-32/32F.
- Modification of the TS to permit storage of Pressurized Water Reactor (PWR) fuel assemblies with annular fuel pellets in the top and bottom 12 inches of the active fuel length.
- Modification of the definition of damaged fuel.

This certificate constitutes the approval and conditions for use of the HI-STORM 100 System for storage of spent nuclear fuel under the general licensing provisions of 10 CFR 72.210. A general license has been granted to all holders of licenses for nuclear power reactors issued under 10 CFR Part 50.

This letter also serves as a reminder for you to notify affected cask users of the effective date for this amendment. If you have any questions regarding this certificate amendment, please contact me or Christopher M. Regan of my staff at 301-492-3300.

Sincerely,

/RA/

Robert Nelson, Chief
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No.: 72-1014

Enclosures:
1. Certificate of Compliance No. 1014, Amendment No. 3
2. Safety Evaluation Report

cc: Raymond Shadis, New England Coalition

This certificate constitutes the approval and conditions for use of the HI-STORM 100 System for storage of spent nuclear fuel under the general licensing provisions of 10 CFR 72.210. A general license has been granted to all holders of licenses for nuclear power reactors issued under 10 CFR Part 50.

This letter also serves as a reminder for you to notify affected cask users of the effective date for this amendment. If you have any questions regarding this certificate amendment, please contact me or Christopher M. Regan of my staff at 301-492-3300.

Sincerely,

/RA/

Robert Nelson, Chief
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No.: 72-1014

Enclosures:
1. Certificate of Compliance No. 1014, Amendment No. 3
2. Safety Evaluation Report

cc: Raymond Shadis, New England Coalition

Distribution: w/o encls*

NRC File Center	NMSS r/f	SFPO r/f	MJenkins	Apessin OGC
NJensen, OGC	RLorson, RI	MErnstes, RII	BDesai, RII	JCameron, RIII
BSptitzberg RIV	BWhite			

C:\FileNet\ML071500369.wpd **(ML#)**
G:\SFPO\cregan\HoltecAmend3rulemaking\COC1014-approvedCoCAmend3.wpd **(ML#)**
G:\SFPO\cregan\HoltecAmend3rulemaking\COC1014-approvedSERAmend3.wpd **(ML#)**
G:\SFPO\cregan\HoltecAmend3rulemaking\COC1014-approvedTSAmend3.pdf **(ML#)**

ADAMS Pkg # ML072500314

OFC	SFPO	E	SFPO		SFPO	
NAME	CRegan		MDeBose		RNelson	
DATE	5/2 /07		5/3/07		5/ 29 /07	

C = COVER **E = COVER & ENCLOSURE** **N = NO COPY**

OFFICIAL COPY