

July 18, 2002

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

SUBJECT: AMENDMENT NO. 1 TO CERTIFICATE OF COMPLIANCE NO. 1014 FOR THE
HOLTEC INTERNATIONAL HI-STORM 100 CASK SYSTEM TO ADD
ADDITIONAL CONTENTS TO THE PACKAGE

Dear Mr. Singh:

As requested by your application dated August 31, 2000, as supplemented, enclosed is Certificate of Compliance (CoC) No. 1014, Amendment No. 1 for the HI-STORM 100 System. This certificate supersedes, in its entirety, CoC No. 1014, dated May 31, 2000. Changes made to the certificate are indicated by vertical lines in the right margin. As stated in the Federal Register (67 FR 46369, 07/15/02), the effective date of this certificate is July 15, 2002. We request that you update and submit seven copies of the final safety analysis report to conform to the certificate, within 60 days.

Amendment No. 1 to CoC No. 1014 constitutes U.S. Nuclear Regulatory Commission (NRC) approval of the following changes to the HI-STORM 100 System:

- Addition of four new multipurpose canisters (MPCs). The new MPCs include the MPC-24E, MPC-24EF, MPC-32 for pressurized water reactor fuel and the MPC-68FF for boiling water reactor fuel.
- Addition of damaged fuel containers.
- Addition of the HI-STORM 100S overpack and the 100A and 100SA high-seismic anchored overpacks.
- Addition of high-burnup fuel to the approved contents.
- Revision of the thermal analysis to include natural convection heat transfer, revision of the helium backfill requirements to allow a helium density measurement to be used, allowance for a helium drying system, for use with high burn-up fuel, rather than the existing vacuum drying system, and requirement for soluble boron during canister loading for certain higher enriched fuels.
- Relocation of the technical specifications for special requirements for the first systems in place and training requirements to the main body of CoC No. 1014.
- Addition of selected non-fuel hardware to the approved contents

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

K. P. Singh

- 2 -

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 Julia M. Barto of my staff at 301-415-8500.

Sincerely,

/s/ /RA/

E. William Brach, Director
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards

Docket No.: 72-1014

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

K. P. Singh

- 2 -

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 Julia M. Barto of my staff at 301-415-8500.

Sincerely,

/s/ /RA/

E. William Brach, Director
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards

Docket No.: 72-1014

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

Distribution: w/o encls* (closes TAC L20752)

Docket	NRC File Center	PUBLIC	NMSS r/f	SFPO r/f
MMoore *	NJensen, OGC	RBellamy, RI	WGloersen, RII	RLandsmans, RIII
VEverett, RIV	MTokar *	RShwemaker *	CRegan *	CBajwa *
CBrown *	JGuttmann *	MWHodges *		

ADAMS Pkg # ML022000176

C:\ORPCheckout\FileNET\ML022000266.wpd (**ML#022000266**)

G:\HI-STORM\Amendment 1\rulemaking\final\COC1014-Certificate revision 1.wpd (**ML#022000214**)

G:\HI-STORM\Amendment 1\rulemaking\final\Appendix A Amndt 1.pdf (**ML#022000220**)

G:\HI-STORM\Amendment 1\rulemaking\final\Appendix B Amndt 1.pdf (**ML#022000234**)

G:\HI-STORM\Amendment 1\rulemaking\final\COC1014-Safety Evaluation Amendment 1 (HI-STORM-100).wpd
(**ML#022000249**)

OFC	SFPO	E	SFPO		SFPO		SFPO		SFPO	
NAME	JMBarto		EZiegler		JMonninger		CMiller		EWBrach	
DATE	7/17/02		7/17/02		7/17/02		7/18/02		7/18/02	

C = COVER

E = COVER & ENCLOSURE
OFFICIAL COPY

N = NO COPY