

January 8, 2008

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

SUBJECT: AMENDMENT NO. 4 TO CERTIFICATE OF COMPLIANCE NO. 1014 FOR  
THE HOLTEC INTERNATIONAL HI-STORM 100 CASK SYSTEM

Dear Dr. Singh:

As requested by your application dated November 7, 2005, as supplemented, enclosed is Certificate of Compliance (CoC) No. 1014, Amendment No. 4 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 (73 FR 00017, January 2, 2008), the effective date of this certificate is January 8, 2008.

Amendment No. 4 to CoC No. 1014 constitutes U.S. Nuclear Regulatory Commission (NRC) approval of the following changes to the HI-STORM 100 System. These changes are additions of site specific options to the CoC to permit use of a modified HI-STORM 100 Cask System at the Indian Point Unit 1 (IP1) Independent Spent Fuel Storage Installation (ISFSI). These options include the shortening of the HI-STORM 100S Version B, Multi-Purpose Canister (MPC)-32 and MPC-32F and the HISTRAC 100D to accommodate site specific restrictions. Additional changes address: the Technical Specifications (TS) definition of "TRANSPORT OPERATIONS," and associated language in the Safety Analysis Report; the soluble boron requirements for Array/Class 14x14E IP1 fuel; the helium gas backfill requirements for Array/Class 14x14E IP1 fuel; the addition of a fifth damaged fuel container design under the TS definition for Damaged Fuel Container; addition of separate burnup, cooling time, and decay heat limits for Array/Class 14x14E IP1 fuel for loading in an MPC-32 and MPC-32F; addition of antimony-beryllium secondary sources as approved contents; the loading of all IP1 fuel assemblies in damaged fuel containers; the preclusion of loading of IP1 fuel debris in the MPC-32 or MPC-32F; the reduction of the maximum enrichment for Array/Class 14x14E IP1 fuel from 5.0 to 4.5 wt% <sup>235</sup>U; changes to licensing drawings to differentiate the IP1 MPC-32 and MPC-32F from the previously approved MPC-32 and MPC-32F; and editorial changes including replacing all references to US Tool and Die (UST&D) with Holtec Manufacturing Division (HMD).

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

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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 at (301) 492-3294 or Stewart Brown of my staff at (301) 492-3317.

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. CoC No. 1014, Amendment No. 4  
2. Safety Evaluation Report

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Distribution: w/o encls\*

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BSptitzberg RIV      BWhite

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**ADAMS Pkg # ML**

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<b>NAME:</b>	SBrown		WWheatly		RNelson	
<b>DATE:</b>	01/04/08		01/04/08		01/08/08	

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