

September 8, 2011

Ms. Tammy Morin  
Licensing Manager  
Holtec International  
555 Lincoln Drive West  
Marlton, NJ 08053

SUBJECT: DRAFT PROPOSED CERTIFICATE OF COMPLIANCE AND PRELIMINARY SAFETY EVALUATION REPORT FOR AMENDMENT NO. 8 TO CERTIFICATE OF COMPLIANCE NO. 1014 FOR THE HI-STORM 100 CASK SYSTEM (TAC NO. L24398)

Dear Ms. Morin:

By letter dated November 28, 2009, as supplemented November 4, December 14, 2010, February 25, and July 8, 2011, Holtec International submitted license amendment request No. 8 to the U. S. Nuclear Regulatory Commission (NRC) for the HI-STORM 100 Certificate of Compliance (CoC) No. 1014. Holtec's April 4, 2011, supplement was withdrawn by the letter to the NRC dated July 1, 2011. The changes proposed for Amendment No. 8 include the following: 1) addition of a new multi-purpose canister (MPC) – 68M to the approved models presently included in CoC No. 1014 with two new boiling water reactor fuel assembly/array classes, and 2) addition of a new pressurized water reactor fuel assembly array/class to CoC No. 1014 for loading into the MPC-32. Additionally, Appendix A, Technical Specifications (TS), Table 3-1, MPC Cavity Drying Limits, has been changed to correct errors issued in CoC No. 1014, Amendment No. 5 TS. CoC No 1014, Amendment No. 5 revised TS table 3-1, but the approved changes were not incorporated in the TS changed pages. This created inconsistencies between it and TS Limiting Condition for Operation 3.1.1. This is considered an administrative change. This amended license, when codified through rulemaking, will be denoted as Amendment No. 8 to the CoC.

As a result of our review of the application, and its supplements, the staff has prepared a proposed CoC and preliminary Safety Evaluation Report (SER) pursuant to the requirements of 10 CFR Part 72. Enclosed is a copy of the proposed CoC including appendices and the staff's preliminary SER for Holtec's review and identification of inaccuracies and omissions. Changes made to the enclosed draft amended CoC and Appendices A and B are indicated by vertical lines in the right margin.

Holtec is requested to respond with any comments by close of business on September 16, 2011. Please continue to reference Docket No. 72-1014 and TAC No. L24398 in future

T. Morin

2

correspondence related to this request. If you have any comments or questions concerning this request, please contact me at 301-492-3325.

Sincerely,

**/RA/**

John M. Goshen, P.E., Project Manager  
Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards

Docket No.: 72-1014

TAC No.: L24398

Enclosures:

1. Draft CoC No. 1014,  
Amendment No. 8
2. Draft Preliminary SER

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John M. Goshen, P.E., Project Manager  
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Distribution: w/o encls\*\*

Docket

NMSS r/f

ADAMS      Package : ML112560113  
 Transmittal : ML112560119  
 Draft CoC NO. 1014 : ML112560136  
 Draft Appendix A TS : ML112560152  
 Draft Appendix B TS : ML112560183  
 Preliminary SER : ML112560238

File Directory : G:\SFST\HI-STORM 100\Amendment 8\Rulemaking\HS 100 A8 Draft  
 transmittal.doc  
 \Draft HS 100 A8 Proposed CoC.pdf  
 \Draft Proposed AppA A8.pdf  
 \Draft Proposed AppB A8.pdf  
 \Draft HS 100 A8 PreliminarySER.docx

**ADAMS Package No.: ML112560113**

<b>OFC</b>	SFST	SFST				SFST
<b>NAME</b>	WWheatley	JGoshen				MWaters
<b>DATE</b>	7/ 26 /11	7/14/11				9/ 08 /11

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