

March 23, 2004

Mr. Brian Gutherman
Licensing Manager
Holtec International
555 Lincoln Drive West
Marlton, NJ 08053

SUBJECT: HI-STORM 100, AMENDMENT 2, THERMAL ANALYSES
(TAC NO. L23657)

Dear Mr. Gutherman:

On March 4, 2002, Holtec International (Holtec) submitted a revised application in accordance with 10 CFR Part 72 for an amendment to Certificate of Compliance (CoC) No. 72-1014 for the HI-STORM 100 Cask System to: (a) revise the contents in accordance with various new thermal, confinement, criticality, and shielding review methodologies; (b) permit the inclusion of damaged fuel contents to the MPC-32; and (c) permit the inclusion of intact, damaged fuel, and fuel debris contents to a new MPC-32F.

This letter is to inform you that the U.S. Nuclear Regulatory Commission (NRC) staff has conducted confirmatory analyses regarding the thermal aspects of the Holtec HI-STORM and determined that, in some areas of the application, continued dialogue is necessary to determine where and why the staff's thermal analysis results are not in agreement with the Holtec analysis results. The attached document, "NRC Staff's Preliminary Confirmatory Calculations for the Holtec HI-STORM MPC-68," and compact discs, containing the staff's computer model specifics, describe information regarding the staff's analyses and areas where the staff feels the Holtec analyses may be unclear. The staff notes that the analyses performed and results determined by the staff are preliminary and do not comprise a final staff position or conclusion regarding the HI-STORM Amendment 2 application. Please review the enclosure and computer model specifics and be prepared to discuss this information as it relates to your own analyses at the meeting with the staff scheduled for April 1, 2004.

The staff is sensitive to the fact that much of the information upon which the staff's analyses, contained in attachments to this letter, are based or derived from has been determined to be Holtec Proprietary information and has been withheld from public disclosure per 10 CFR Part 2.390. In light of the above, the information contained in the attachments will not be made public until completion of the staff review at which time the NRC will determine, under 10 CFR §2.390, which information should continue to be withheld from public disclosure. We will inform you of any future determination to release information contained as attachments to this letter in separate correspondence.

B. Gutherman

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Please reference docket number 72-1014 and TAC No. L23657 in future correspondence related to this action. You may contact me at 301/415-8512, if you have any questions regarding our review of the amendment request.

Sincerely,

/RA/

Christopher M. Regan, Project Manager
Licensing Section
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards

Docket No. 72-1014

TAC No. L23657

Enclosures: (1) NRC Staff's Preliminary Confirmatory Calculations for the Holtec HI-STORM MPC-68
(2) Two Compact Discs Containing NRC Staff's Computer Model Details

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Christopher M. Regan, Project Manager
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