

May 30, 2008

MEMORANDUM TO: Nader Mamish, Deputy Director  
Licensing and Inspection Directorate  
Division of Spent Fuel Storage and Transportation, NMSS

FROM: Stewart W. Brown, Senior Project Manager /RA/  
Licensing Branch  
Division of Spent Fuel Storage and Transportation, NMSS

SUBJECT: SUMMARY OF THE APRIL 28, 2008, MEETING WITH HOLTEC  
INTERNATIONAL TO DISCUSS THE STRUCTURAL AND THERMAL  
PORTIONS OF NRC'S REQUEST FOR ADDITIONAL INFORMATION  
DATED FEBRUARY 28, 2008

#### Background

On April 28, 2008, U.S. Nuclear Regulatory Commission (NRC or staff) met with Holtec International (Holtec) representatives in Rockville, Maryland. The purpose of this meeting was to discuss the structural and thermal portions of staff's request for additional information (RAI) dated February 28, 2008 (ADAMS No. ML080640507). This RAI was issued because the staff determined that it needed additional information to complete its technical review of Holtec's request for inclusion of a subsurface design option to the HI-STORM 100 spent fuel dry cask storage system (HI-STORM 100U) (Certificate of Compliance (CoC) No. 1014 Amendment No. 6).

This meeting was a follow-up meeting to the March 21 and March 27 meetings. Summaries of those meetings are dated April 9 (ADAMS No. ML081030013) and April 7 (ADAMS No. ML080980571) respectively.

The meeting was noticed on April 16, 2008 (ADAMS No. ML080660582). A copy of the list of meeting attendees is enclosed (Enclosure 1).

#### Discussion

Structural – An approach to establish the design basis seismic analysis model:

During the March 21 meeting Holtec agreed to perform several new seismic analyses to address staff's concerns. During this meeting Holtec provided a summary of its results of these new analyses. A copy of Holtec's slides is enclosed (Enclosure 2). The staff noted, based on Holtec's presentation, that the approach and results appeared to address our concerns however, we would base our regulatory decision on a detail review of this information once submitted.

Thermal Issue – An approach to treat wind and air intermixing in the thermal analysis model:

During the March 27 meeting NRC agreed to provide Holtec a formal response to Holtec's presentation related to questions numbers 4-1 and 4-2 of the RAI. The staff provided its

position by letter dated April 18, 2008 (ADAMS No. ML081120455). Holtec's presentation was focused on the staff's letter. A copy of Holtec's slides is enclosed (Enclosure 3). After considerable discussion on this matter an agreement on an approach of how to treat either wind or air intermixing for thermal modeling of Hotec's proposed vertical ventilated module concept could not be reached. Both Holtec and the staff agreed to have additional discussions on this matter.

Enclosures:    1. List of Attendees  
                  2. Holtec's Presentation (Structural)  
                  3. Holtec's Presentation (Thermal)

Docket No.    72-1014

focused on the staff's letter. A copy of Holtec's slides is enclosed (Enclosure 3). After considerable discussion on this matter an agreement on an approach of how to treat either wind or air intermixing for thermal modeling of Hotec's proposed vertical ventilated module concept could not be reached. Both Holtec and the staff agreed to have additional discussions on this matter.

Enclosures: 1. List of Attendees  
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Docket No. 72-1014

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