

August 8, 2006

MEMORANDUM TO: William H. Ruland, Deputy Director
Licensing and Inspection Directorate
Spent Fuel Project Office, NMSS

FROM: Christopher M. Regan, Acting Chief **/RA/**
Licensing Section
Licensing and Inspection Directorate
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF AUGUST 4, 2006, MEETING WITH HOLTEC
INTERNATIONAL REGARDING THE HI-STAR 180 TRANSPORTATION
PACKAGE (TAC NO. L23972)

On August 4, 2006, the Nuclear Regulatory Commission (NRC) staff from the Spent Fuel Project Office met with representatives of Holtec International (Holtec) at NRC Headquarters in Rockville, Maryland. The purpose of the meeting was to provide Holtec the opportunity to present information to the NRC regarding a new transportation package designated the HI-STAR 180. The meeting was noticed on July 19, 2006. This was the second meeting held with Holtec regarding the HI-STAR 180 and the first public meeting. Enclosure 1 is a list of attendees, Enclosure 2 contains the Holtec presentation slides.

Holtec presented information on benchmarking of codes for impact limiter qualification, analytical modeling of the containment sealing system, and structural acceptance criteria. The staff questioned Holtec on the specific bases for assuming moderator exclusion and Holtec's interpretation of Interim Staff Guidance -19 associated with the containment analysis. There was also discussion of the basket structural elements and the materials used (METAMIC®) and their ability to maintain configuration control under the environmental conditions present, i.e., temperature and duration. The staff noted that some of the materials being used are not specifically listed in the American Society of Mechanical Engineers Boiler and Pressure Vessel Code and therefore Holtec would have to demonstrate the creep stability of the METAMIC® for the conditions and duration the transfer cask would be approved for. The staff questioned Holtec on the system credited for package containment. A principle design principle of the package is that, although there are two separate closures, there is not a redundant containment boundary. Holtec noted the above comments and feedback from the staff and would consider any changes to the proposed license application for the HI-STAR 180 scheduled to be submitted to the NRC for review by the end of the calendar year.

In summary, the staff thanked Holtec for the information that was presented. There was one question from a member of the public regarding the staff's preferred approach to demonstrating regulatory compliance, i.e., by empirical testing or by analysis. The staff replied that there are benefits to both approaches but that in particular when taking an analytical approach,

benchmarking of the analysis is critical to making a defensible demonstration of regulatory compliance. No regulatory decisions were made by the NRC during the meeting on the material presented.

Docket No. 71-9325

TAC No. L23972

- Enclosures:
1. Attendance List
 2. Presentation Slides

benchmarking of the analysis is critical to making a defensible demonstration of regulatory compliance. No regulatory decisions were made by the NRC during the meeting on the material presented.

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NAME	EZiegler		MRahimi		CRegan	
DATE	08/07/06		08/08/06		08/08/06	

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Enclosure 1

Attendee List

**Meeting with Holtec International
HI-STAR 180
August 4, 2006**

ATTENDANCE LIST

<u>Name</u>	<u>Affiliation</u>
Ed Hackett	NRC/NMSS/SFPO
Christopher Regan	NRC/NMSS/SFPO
Jorge Solis	NRC/NMSS/SFPO
Geoff Hornseth	NRC/NMSS/SFPO
Jerry Chuang	NRC/NMSS/SFPO
William Ruland	NRC/NMSS/SFPO
Michel Call	NRC/NMSS/SFPO
Carl Withee	NRC/NMSS/SFPO
David Tang	NRC/NMSS/SFPO
Edward Kish	NRC/NMSS/SFPO
Joe Sebrosky	NRC/NMSS/SFPO
Kenneth Armstrong	NRC/NMSS/SFPO
Gordon Bjorkman	NRC/NMSS/SFPO
Stephan Anton	Holtec International
Lius Hinojosa	Holtec International
Alan Soler	Holtec International
Pierre-Alexander Rosigny	NOK/ Holtec International
Thecla Fabian	Fuel Cycle Week
Wayne Hodges	H322 Consulting

Enclosure 2

Presentation Slides