February 18, 2005

MEMORANDUM TO: Brian E. Thomas, Acting Deputy Director
Licensing and Inspection Directorate
Spent Fuel Project Office, NMSS

FROM: Christopher M. Regan, Senior Project Manager /RA/
Licensing Section
Licensing and Inspection Directorate
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF FEBRUARY 16, 2005, MEETING WITH HOLTEC INTERNATIONAL REGARDING REVIEW OF AMENDMENT 3 TO THE HI-STORM 100 CERTIFICATE OF COMPLIANCE (TAC NO. L23799)

On February 16, 2005, the Nuclear Regulatory Commission (NRC) staff from the Spent Fuel Project Office and the Office of Nuclear Regulatory Research 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 an overview of proposed Amendment 3 to the 10 CFR Part 72 Certificate of Compliance (CoC) for the HI-STORM 100 dry cask storage system described as the HI-STORM 100U. The meeting was noticed on February 1, 2005. Attachment 1 is a list of attendees, Attachment 2 contains the public/non-proprietary presentation slides, and Attachment 3 contains the non-public/proprietary presentation slides. The meeting was split into two sessions. A morning session open to public observation and an afternoon session that was closed to the public at the request of Holtec to allow for presentation of proprietary material.

Holtec began the meeting by presenting an overview of the HI-STORM 100U design, “LAR 1014-3 HI-STORM 100U.” The presentation summarized the overall design concept of the HI-STORM 100U and clarified where differences were between the existing approved HI-STORM 100 and the HI-STORM 100U concept. This presentation was followed by two additional presentations, “Nuclear Analysis for the HI-STORM 100U” and “Structural Qualification of the HI-STORM 100U System.” Following the presentations there was a brief discussion of the current staff review schedule and milestone activities associated with the application review. The staff noted that the application is currently undergoing a technical acceptance review and that an official schedule will be issued pending a positive result of the staff’s technical acceptance review. The NRC asked Holtec if there were any pending user needs for the HI-STORM 100U design that might affect prioritization of the staff review resources against other licensing activities. Holtec indicated there are interested parties in the HI-STORM 100U design but did not indicate an imminent user need. Following this discussion the public was afforded the opportunity to ask the NRC staff any questions regarding review of the Holtec application. There were no questions from the public. The meeting adjourned for a lunch break.

Following the lunch break Holtec presented, in the closed afternoon session, two presentations, “Mechanical Design of the HI-STORM 100U,” and “Thermal-Hydraulic Evaluation of the HI-STORM 100U Design.” The public was provided with non-proprietary copies of the presentation slides before conclusion of the morning session. The staff raised several issues specific to construction of HI-STORM 100U and the potential use of unreinforced concrete.

It was also noted that the staff and Holtec are working to resolve outstanding issues associated with the thermal analyses and methodologies in parallel with review of the Holtec Amendment 3 application. Although the staff highlighted some potential technical issues during the meeting, the staff pointed out that per the Rules of Engagement, described in Regulatory Issue Summary (RIS) 2004-20, “Lessons Learned from Review of 10 CFR Parts 71 and 72 Applications,” issued December 16, 2004, changes to the application at this point in the review would not be accepted.

In summary, the staff thanked Holtec for the material that was presented. It was noted that continued dialogue on resolution of thermal issues would continue in parallel to review of the Amendment 3 application. The staff will inform Holtec of the results of the technical acceptance review by the end of February or early March. No regulatory decisions were made by the NRC on the material presented during the meeting.

Docket No. 72-1014
TAC NO. L23799

Attachments: 1. Attendance List
2. Open Session Presentation Slides:
Nuclear Analysis for the HI-STORM 100U
Structural Qualification of the HI-STORM 100U System
Mechanical Design of the HI-STORM 100U (non-proprietary version)
Thermal-Hydraulic Evaluation of the HI-STORM 100U Design (non-proprietary version)
3. Closed Session Presentation Slides:
Mechanical Design of the HI-STORM 100U (proprietary version)
Thermal-Hydraulic Evaluation of the HI-STORM 100U Design (proprietary version)

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SBaggett NJensen, OGC NRC attendees

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NAME	CRegan		EZiegler		JMonninger	
DATE	02/ 16 /05		02/ 18 /05		02/ 18 /05	

Official Record Copy

Attachment 1

Attendee List

Meeting with Holtec International
HI-STORM 100U Amendment 3 Overview
February 16, 2005

ATTENDANCE LIST

Name	Affiliation
Wayne Hodges	NRC/NMSS/SFPO
Rob Lewis	NRC/NMSS/SFPO
Christopher Regan	NRC/NMSS/SFPO
Larry Campbell	NRC/NMSS/SFPO
Michel Call	NRC/NMSS/SFPO
Jorge Solis	NRC/NMSS/SFPO
Antonio Diaz	NRC/NMSS/SFPO
Ghani Zigh	NRC (RES)
Bob Tripathi	NRC/NMSS/SFPO
David Tang	NRC/NMSS/SFPO
Geoff Hornseth	NRC/NMSS/SFPO
Jerry Chang	NRC/NMSS/SFPO
Carl Withee	NRC/NMSS/SFPO
Michelle Flanagan	NRC/NMSS/SFPO
Bob Shewmaker	NRC/NMSS/SFPO
Dennis Galvin	NRC/NMSS/HLWRS
Kris Singh	Holtec International
Chuck Bullard II	Holtec International
D. Mitra-Majumdar	Holtec International
Stephan Anton	Holtec International
Marko Marcec	Holtec International
Pankaj Chaudhary	Holtec International
Luis E. Hinojosa	Holtec International
Marko Marcec	Holtec International
Everett Redmond	Holtec International
Weiqiao Wang	Holtec International
Evan Rosenbaum	Holtec International (via telephone)
Joy Russell	Holtec International (via telephone)
Chris Cummings	Holtec International (via telephone)
Maureen Conley	Platts/McGraw-Hill
Carlyn Greene	WNC/Spent Fuel
Andrea Jennetta	FCW
Tom Michener	Pacific Northwest National Laboratory
Harold Adkins	Pacific Northwest National Laboratory
Nick Klymystryn	Pacific Northwest National Laboratory

Attachment 1

Attachment 2

Open Session Presentation Slides
(Non-Proprietary)

Attachment 3

Closed Session Presentation Slides
(Proprietary)