

April 12, 2011

MEMORANDUM TO: Doug Weaver, Deputy Director
Licensing and Inspection Directorate
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

FROM: John Goshen, Project Manager */RA/*
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF MARCH 24, 2011, MEETING WITH HOLTEC
INTERNATIONAL (HOLTEC) (TAC No. 24512)

PURPOSE:

This was a category 1 meeting between Holtec International (Holtec) and U.S. Nuclear Regulatory Commission (NRC) staff to discuss the proposed HI-STORM Flood/Wind (FW) multi-purpose canister (MPC) Storage System license amendment request (LAR) No. 1.

MEETING SUMMARY:

The meeting took place on March 24, 2011, from 1p.m. to 4p.m., at the NRC's Executive Boulevard Building in Rockville, Maryland. Attendees included Holtec staff, NRC's Division of Spent Fuel Storage and Transportation (SFST) staff, and some members of the public. An attendance list is enclosed (Enclosure 1). The meeting began with introductions, introductory remarks by SFST staff, and then moved into a discussion about the planned LAR No. 1.

Holtec staff presented an overview of the design features of the HI-STORM FW Underground (U) Vertical Ventilated Module (VVM) and detailed presentations on structural, Soil Structure Interaction (SSI) analysis and thermal analysis. The presentation slides are enclosed (Enclosure 2).

Holtec outlined the main Amendment characteristics as follows:

1. HI-STORM FWU is the underground variant of the HI-STORM FW MPC Storage System. (Proposed Certificate of Compliance (CoC) No. 1032.)
2. The proposed HI-STORM FWU version is similar to the HI-STORM 100U version of the HI-STORM 100 Cask System (CoC No. 1014). LAR 1014-9 is currently under review and has SSI analysis methodology similar to that used for the FWU analysis.
3. The HI-STORM FWU may utilize an MPC-37 or MPC-89 with baskets made of Metamic-HT.

4. New HI-TRAC Variable Weight Transfer Cask is similar to that used for the HI-TRAC 125D previously evaluated by the staff.

Regarding the SSI methodology, Holtec explained that their analysis is based in bounding conditions valid for most sites in the continental United States, but the proposed LAR will provide allowance to perform site-specific calculations if there are minor infractions in some frequencies not bounded by the spectrum used.

Holtec plans to submit the LAR in June 2011 as an alternative overpack under CoC No. 1032 with the safety analysis presented as supplements to the main chapters of the HI-STORM FW MPC Storage System Final Safety Analysis Report and the CoC providing a separate Technical Specifications (TS) to differentiate from the aboveground version of the system.

The Staff provided comments on the following aspects:

- 10 CFR 72.212 requires specific SSI analysis but the TS should contain clear directions on the limiting site parameters for the storage system.
- SFST has requested clarification from the Office of the General Counsel on the basis for allowing amendments to CoC's versus requiring a new cask design docket. Holtec will be made aware of any policy changes prior to LAR submittal.
- The analysis should consider the displacement between the top surface pad and bottom foundation pad in the case of seismic accident to assure the retrievability of the canister.

The members of the public in attendance did not have any questions or comments. The staff did not make any regulatory commitments at the meeting.

If you have any questions or comments, please contact John Goshen at (301) 492-3325 or john.goshen@nrc.gov.

Docket No. No. 72-1032
TAC No. 24512

Enclosures:
As stated

4. New HI-TRAC Variable Weight Transfer Cask is similar to that used for the HI-TRAC 125D previously evaluated by the staff.

Regarding the SSI methodology, Holtec explained that their analysis is based in bounding conditions valid for most sites in USA, but the proposed SAR contents provisions to perform site-specific calculations if there are minor infractions in some frequencies not bounded by the spectrum used.

Holtec plans to submit LAR in June 2011 as an alternative overpack under 72-1032 docket, with the safety analysis for FWU VVM presented as supplements to the main chapters of the HI-STORM FW System FSAR and Certificate of Compliance containing a separate set of Technical Specifications to differentiate from the aboveground system.

The Staff provided comments on the following aspects:

- 10 CFR 72.212 requires specific SSI analysis but the TS should contain clear directions on the limiting site parameters for the storage system.
- SFST has requested clarification from the Office of the General Counsel on the basis for allowing amendments to CoC's versus requiring a new cask design docket. Holtec will be made aware of any policy changes prior to LAR submittal.
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Enclosures:
As stated

DISTRIBUTION:NRC Attendees BWhite SFST Reading File Holtec attendees

ADAMS Package (Accession): ML111030068

File Locations:

G:\SFST\HI-STORM FW\Amendment 1\Preapplication meeting\ Preap meeting summary.doc

G:\SFST\HI-STORM FW\Amendment 1\Preapplication meeting\ HI-STORM FWU presentation.pdf

OFC	SFST	SFST	SFST	SFST
NAME	JJMontesinos	JGoshen	WWheatley	MWaters
DATE	3/25/2011	4/11/2011	4/12 /2011	4/12/2011

OFFICIAL RECORD COPY

ENCLOSURE 1

March 24, 2011
ATTENDANCE LIST

Name	Affiliation
Michael Waters	NRC/SFST
John Goshen	NRC/SFST
Meraj Rahimi	NRC/SFST
David Pstrak	NRC/SFST
Norma García	NRC/SFST
David Tang	NRC/SFST
Alexis Sotomayor	NRC/SFST
Jorge Solís (By Telecom)	NRC/SFST
John Vera (By Telecom)	NRC/SFST
Jason Piotter (By Telecom)	NRC/SFST
Juan Montesinos	NRC/SFST
Tammy Morin	HOLTEC
Chuck Bullard	HOLTEC
John Zhai	HOLTEC
Slava Guzeyev	AREVA
Carlyn Greene (By Telecom)	Ux Consulting
Maureen Conley (By Telecom)	Platz

ENCLOSURE 2

**HI-STORM FW UNDERGROUND
VERTICAL VENTILATED MODULE
PRE-SUBMITTAL BRIEFING**

HOLTEC INTERNATIONAL PRESENTATION