

August 17, 2012

MEMORANDUM TO: Doug Weaver, Deputy Director  
Division of Spent Fuel Storage and Transportation, NMSS

FROM: Jessica Glenny, Project Manager **/RA/**  
Rules, Inspections, and Operations Branch  
Division of Spent Fuel Storage and Transportation, NMSS

SUBJECT: SUMMARY OF JULY 12, 2012, MEETING WITH HOLTEC  
INTERNATIONAL TO DISCUSS THE PAD ANALYSIS  
METHODOLOGY

#### Background

A meeting was held on July 12, 2012, in Rockville, Maryland, at the request of Holtec International to discuss Holtec's methodology for seismic/structural analysis of reinforced concrete pads for independent spent fuel storage installations (ISFSIs). The enclosures are the agenda, the list of meeting attendees, and a copy of the presentation slides presented by Holtec. NRC staff made observations on the information presented by Holtec, and openly exchanged technical and regulatory information; however, no regulatory decisions were made nor requested at the meeting.

#### Discussion

- The purpose of the meeting was for Holtec to present information on the analysis/design requirements for ISFSI pads, a background on their analysis, the soil structure interaction analysis, and ISFSI pad strength and stability evaluation per the American Concrete Institute (ACI) code.
- The staff and Holtec engaged in discussions regarding the ISFSI storage pad and its FSAR designation as "not-important-to-safety," as well as the use of ACI-318 for the pad's qualification, rather than using ACI-349, as a consensus standard for evaluating the structural adequacy of the concrete pad.
- During Holtec's presentation of the rocking coefficient of restitution (COR), the staff indicated that they wanted to provide comments to Holtec on their methodology for calculating the COR after the presentation. The staff was not able to warrant any comments on the rocking COR. The staff would like to follow up in another public meeting to discuss Holtec's methodology for calculating the rocking COR.

- Holtec expressed their intent to submit a letter presenting their methodology and requesting staff feedback in a response letter.
- Industry representatives participated via teleconference. There was no participation from members of the general public.

Docket No. 72-1014

TAC No. L24658

Enclosures:

1. Meeting Agenda
2. List of Meeting Attendees
3. Holtec Presentation Slides

- Holtec expressed their intent to submit a letter responding the staff's observations of their methodology. Staff will provide feedback to Holtec on their presentation in the response to the letter.
- Industry representatives participated via teleconference. There was no participation from members of the general public.

Docket No. 72-1014  
TAC No. L24658

Enclosures:

1. Meeting Agenda
2. List of Meeting Attendees
3. Holtec Presentation Slides

Distribution: SFST r/f NMSS r/f NRC Attendees

<G:\SFST\Glenny\Meeting Notices & Summaries\Holtec Pad Analysis\Holtec Meeting Summary 07122012.doc>

<G:\SFST\Glenny\Meeting Notices & Summaries\Holtec Pad Analysis\Holtec Methodology for ISFSI Pad Analysis - Presentation.pdf>

**ADAMS P8 No.: ML12230A293 ADAMS Memo No.: ML12230A304**

<b>OFC</b>	SFST		SFST		SFST			
<b>NAME</b>	JGlenny		MDeBose		EBenner			
<b>DATE</b>	8/7/2012		8/7/2012					

C=Without attachment/enclosure E=With attachment/enclosure N=No copy **OFFICIAL  
RECORD COPY**

Agenda  
July 12, 2012, 1:00 p.m. – 4:00 p.m.  
Meeting with Holtec International

- Introductions
- Holtec International's presentations on the pad analysis methodology
- Public comments or questions for NRC staff
- Adjourn

**Meeting Between GE Nuclear Energy, Alpha Omega Services, Inc., and the  
Nuclear Regulatory Commission  
July 12, 2007  
Meeting Attendees**

Mark Lombard	NRC/SFST
Doug Weaver	NRC/SFST
Eric Benner	NRC/SFST
Jessica Glenney	NRC/SFST
Bob Tripathi	NRC/SFST
Gordon Bjorkman	NRC/SFST
Jason Piotter	NRC/SFST
Neil Day	NRC/SFST
David Tang	NRC/SFST
Dr. Kris Singh	Holtec
Dr. Stefan Anton	Holtec
Chuck Bullard	Holtec
Rahul Jhaver	Holtec
Abhijit Honrao	Transnuclear
Carolyn Green	UX Consulting
Robert Clark	Arkansas Nuclear One
Terry Sides	Southern Nuclear Co.
Suzanne Leblang	Entergy
John Schrage	Exelon Corp.
Kenn Hunter	Exelon Corp
Dennis Cook	Exelon Corp
Zita Martin	Tennessee Valley Authority