February 21, 2007

MEMORANDUM TO: William H. Ruland, Deputy Director
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

FROM: Joseph M. Sebrosky, Senior Project Manager **/RA/**
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF FEBRUARY 8, 2007, MEETING WITH TRANSNUCLEAR INC., TO DISCUSS AMENDMENT 10 TO THE STANDARDIZED NUHOMS® DESIGN

On February 8, 2007, the U.S. Nuclear Regulatory Commission (NRC) staff from the Division of Spent Fuel Storage and Transportation, and Transnuclear Inc. (TN) met at NRC Headquarters in Rockville, Maryland. The purpose of the meeting was to discuss TN's January 12, 2007, Standardized NUHOMS® design Amendment 10 application. Enclosure 1 is a list of attendees. Enclosure 2 contains the handouts from the meeting.

Highlights of the Meeting

The amendment proposes the following major changes:

- add two new high heat-load, high-burnup dry shielded canisters (DSCs) designated the NUHOMS®-61 BTH DSC and the NUHOMS®-32PTH DSC,
- add a high-seismic version of the horizontal storage module, and
- change the authorized contents for the NUHOMS®-24PTH DSC and the NUHOMS®-32PT DSC.

TN believes that the staff should be able to write a safety evaluation report (SER) for the amendment in 6 months, because TN contends the staff has reviewed and approved similar design changes in the past. The staff stated at the meeting that, given the complexity of the review, and assuming all issues can be resolved with one Request for Additional Information, a typical time for completing an SER for this type of amendment request is approximately 1 year.

The following action items were identified as a result of the meeting:

- The NRC indicated that it would perform an acknowledgment review of the Amendment 10 application. If the NRC determined that the application appears to contain the necessary information to begin a technical review, then the NRC would provide a letter acknowledging receipt of the application. The letter would also provide a schedule for the review.

- TN is to provide the input and output files for the computer codes used in the analysis of the structural, thermal, criticality, and shielding areas.

- TN is to check on the source of the data used for mechanical properties for boiling water reactor and pressurized water reactor fuel for the fuel assembly analysis. Specifically, the staff believes that the mechanical properties that TN used are from an unpublished report. In the meeting TN referenced a Pacific Northwest National Laboratory report by Geelhood and Beyer.

- TN was to consider whether the Amendment 10 application needed to be revised to reflect recent lessons learned from the staff's review of accidental drop analysis for high-burnup fuel associated with the Amendment 1 application for the TN-68 Dry Storage Cask system. The issue was documented in a phone call summary dated November 14, 2006 (ADAMS accession number ML063190148).

- TN was to consider if the Amendment 10 application needed to be revised to demonstrate that there is adequate margin in the accidental drop analysis for low-burnup fuel.

No regulatory decisions were made at the meeting.

Docket No. 72-1004

Enclosures:
1. Attendance List
2. Meeting Handouts

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DISTRIBUTION:
NRC attendees/without attachments DMcIntyre (OPA) NMSS r/f BWhite

*see previous concurrence

OFC:	SFST	E	SFST	E	SFST	
NAME:	JSebrosky		MDebose*		RNelson	
DATE:	2/21/07		2/21/07		2/21/07	

C = COVER E = COVER & ENCLOSURE N = NO COPY OFFICIAL RECORD COPY

Transnuclear Inc. and NRC
January 25, 2007
ATTENDANCE LIST

Name	Affiliation
William Ruland	NMSS/SFST
Stu Brown	NMSS/SFST
Joe Sebrosky	NMSS/SFST
Gordon Bjorkman	NMSS/SFST
Michael Waters	NMSS/SFST
Larry Campbell	NMSS/SFST
Elaine Keegan	NMSS/SFST
Robert Einziger	NMSS/SFST
Allen Hansen	NMSS/SFST
Chris Bajwa	NMSS/SFST
Bob Tripathi	NMSS/SFST
David Tang	NMSS/SFST
Bob Shewmaker	NMSS/SFST
Jeremy Smith	NMSS/SFST
Jerry Chuang	NMSS/SFST
Tara Neider	Transnuclear
Robert Grubb	Transnuclear
Jayant Bondre	Transnuclear
Don Shaw	Transnuclear
Jayant Bondre	Transnuclear
Peter Shih	Transnuclear
Miguel Manrique	Transnuclear
Prakash Narayanan	Transnuclear
Kamran Tavassoli	Transnuclear
Mark McKeown	NMC
Steven Edward	Progress Energy
Carlyn Greene (via phone)	Washington Nuclear Corp

Enclosure 1

Enclosure 2

Meeting Handouts