

April 24, 2006

MEMORANDUM TO: William Ruland, Deputy Director  
Spent Fuel Project Office  
Office of Nuclear Material Safety  
and Safeguards

FROM: Meraj Rahimi, Senior Project Manager */RA/*  
Licensing Section  
Spent Fuel Project Office  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: SUMMARY OF APRIL 19, 2006, MEETING WITH TRANSNUCLEAR ON  
TN-40 PACKAGE (DOCKET NO. 71-9313, TAC NO. L23959)

On April 19, 2006, Nuclear Regulatory Commission (NRC) staff and representatives of Transnuclear Inc. (TN) held a pre-application meeting to discuss certification of TN-40 storage cask for transport. The discussion at the meeting focused on the proposed 1/3-scale impact limiters test plan followed by TN's proprietary presentation on their Burnup Credit methodology in satisfying regulatory criticality safety requirements for transport. Moderator Exclusion was also discussed briefly at the end. A list of the attendees is shown in Attachment 1.

Currently, there are 20 TN-40 casks loaded and placed on the pad at the Prairie Island facility. There is a plan to load an additional 9 casks. The casks do not meet existing NRC technical guidance standards with regard to criticality control for transportation packages. TN has proposed to use Burnup Credit in order to qualify the TN-40 casks for transport.

TN presented their test plan for qualifying the design of impact limiters using four 1/3-scale impact limiters and a dummy cask (Attachment 2). The plan include side, slap-down, and end drops. The staff indicated that a CG-over-corner drop would be also needed.

The remaining part of the meeting was closed to the public in order for TN to present their proprietary Burnup Credit methodology (Attachment 3). TN also discussed briefly the Moderator Exclusion option at the end. TN indicated that they are planning to submit the application sometime in June 2006.

No regulatory decisions were made at the meeting.

Docket No. 71-9313  
TAC. No. L23959

Attachments: 1. Attendance List  
2. Meeting Handout on Impact Limiter Test Plan  
3. Meeting Handout on Burnup Credit and Moderator Exclusion

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Transnuclear, Inc., and the Nuclear Regulatory Commission Meeting  
April 19, 2006

ATTENDANCE LIST

<u>Name</u>	<u>Affiliation</u>
Meraj Rahimi	NRC/NMSS/SFPO
Nancy Osgood	NRC/NMSS/SFPO
Carl Withee	NRC/NMSS/SFPO
David Tang	NRC/NMSS/SFPO
Ben Wilson	NRC/NMSS/SFPO
Kim Hardin	NRC/NMSS/SFPO
Michel Call	NRC/NMSS/SFPO
Andrew Barto	NRC/NMSS/SFPO
Bob Einziger	NRC/NMSS/SFPO
Don Shaw	Transnuclear
Peter Shih	Transnuclear
Jayant Bondre	Transnuclear
Prakash Narayanan	Transnuclear
S. Lee Samson	Nuclear Management Co.
Oley Nelson	Nuclear Management Co.
Terry Pickens	Nuclear Management Co.
Suzanne Leblang	Nuclear Management Co.
Carlyn Green	Washington Nuclear Corp.
Maureen Conley	Platts/McGraw Hill