

May 1, 2013

MEMORANDUM TO: Anthony H. Hsia, Deputy Director  
Division of Spent Fuel Storage and Transportation, NMSS

FROM: Pierre Saverot, Project Manager **/RA/**  
Licensing Branch  
Division of Spent Fuel Storage and Transportation, NMSS

SUBJECT: SUMMARY OF APRIL 23, 2013, MEETING WITH  
TRANSNUCLEAR, INC.

### Background

Transnuclear, Inc. (TN) requested two meetings to discuss its proposed responses to the request for additional information (RAI) letter dated February 28, 2013, pertaining to the review of the amendment request for the Model No. NUHOMS MP197/197HB package. The first meeting was held on April 23 to discuss selected thermal, materials, and structural RAI proposed responses and the second meeting, scheduled for April 30, 2013, will be devoted to shielding and criticality RAIs. The meeting was noticed on April 10, 2013. The meeting attendance list and the presentation slides are provided as Enclosure Nos.1 and 2, respectively.

### Discussion

TN will be responding to thermal RAI 3-5 by performing, as requested by staff, a grid convergence index (GCI) calculation to obtain errors for the neutron shield temperature during normal conditions of transport (NCT). TN indicated that the maximum neutron shield temperature, including the discretization error, remains below the allowable limit and that the neutron shield temperatures decrease as the grid density increases.

The discussion centered then on structural and materials proprietary RAIs. Staff told TN that the intent of one RAI was not to burden the applicant but to provide a defense in depth analysis. Staff also asked TN to run a simulation for all crushes and to make sure that their model "behaves properly.

Regarding the materials RAIs, staff said that the applicant must refrain from making an argument on irradiated material by using data from unirradiated samples, and provide a logical justification of its position with adequate information to support a conclusion with easily traceable data.

Staff also stated that TN is at the leading edge of the issues raised by the materials RAIs, and that their responses will receive a lot of scrutiny because of their precedent setting impact. Staff acknowledged that the words "accuracy of data" in one RAI could have been better chosen and that the intent of the RAI was to ensure that cracks can be detected. Staff requested TN to justify that the proposed method or technique will work for this unique situation.

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Staff and the applicant discussed the possibility of including a specific condition in the future Certificate of Compliance (CoC) requiring approval of a methodology by the NRC prior to its use.

Staff made no regulatory commitments during the meeting.

Docket No. 71-9302  
TAC No. L24627

Enclosure 1: Meeting Attendees  
Enclosure 2: TN Presentation (proprietary)

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Enclosure 1: Meeting Attendees

Enclosure 2: TN Presentation (proprietary)

Distribution: Attendees, M. Sampson, M. Rahimi, D. Pstrak, C. Araguas, M. Lombard

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**Meeting Between Transnuclear, Inc. (TN) and the  
Nuclear Regulatory Commission  
April 23, 2013  
Meeting Attendees**

**NRC/NMSS/SFST**

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Enclosure 1