

August 29, 2012

MEMORANDUM TO: Douglas Weaver, Deputy Director  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards

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

SUBJECT: SUMMARY OF JULY 23, 2012, MEETING WITH DOMINION POWER,  
TO DISCUSS PROPOSED APPROACH TO PERMIT THE CONTINUED  
OPERATION OF THE TRANSNUCLEAR, INC. (TN) NUHOMS® HD  
INDEPENDENT SPENT FUEL STORAGE INSTALLATION

PURPOSE:

For Dominion staff and the U.S. Nuclear Regulatory Commission (NRC) staff to discuss Dominion's proposed approach to permit the continued operation (loading & storage) of the Transnuclear, Inc. (TN) NUHOMS® HD System Independent Spent Fuel Storage Installation (ISFSI) at North Anna following the August 23, 2011, Seismic Event.

MEETING SUMMARY:

The meeting took place on July 23, 2012, from 8:30 a.m. to 10:00 a.m., at the NRC's Executive Boulevard Building in Rockville, Maryland. Attendees included Dominion Power staff, NRC's Division of Spent Fuel Storage and Transportation (SFST) staff, and TN staff. No members of the public attended. An attendance list is enclosed (Enclosure 1). The meeting began with introductions, and then proceeded to the discussion of Dominion's proposed path forward for continued operation of the subject ISFSI, which operates under a 10 CFR Part 72 general license, for both existing loaded horizontal storage modules (HSM-H) modules, and unloaded HSM-H modules.

Dominion staff discussed the August 23, 2011, event and the results of their licensing evaluation, structural evaluation, and shielding evaluation (see Dominion's, and TN's slides (Enclosures 2 through 8). Detailed inspections from January 2012 indicated no observable structural or functional damage to either the loaded or unloaded HSM-H modules. Dominion has completed concrete repairs (damage was cosmetic only), has realigned the survey monuments for loading the unloaded modules, and has performed dose surveys, which are consistent with pre-event measurements. They are currently recertifying the HSM-H arrays with TN, and expect to be finished by the end of August. Structural analyses indicated no damage to the ISFSI pad, and showed that the dry storage cask (DSC) and HSM-H acceptance criteria are met for the August 23 event, and that the transfer cask (TC) would be acceptable if another event similar to that of August 23 occurred. In addition, the 10 CFR 72.104 dose limits can be met with the gaps between HSM-H modules following the August 23 seismic event, and the

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10 CFR 72.106 dose limits can be met with gaps between HSM-H modules if another event similar to that of August 23 occurred.

In order to load the existing unloaded HSM-H modules, TN will prepare a 10 CFR 72.48 evaluation showing that the August 23, 2012, seismic event is bounded by the Safety Analysis Report (SAR) analyses. NRC staff indicated that the 72.48 evaluation should be specific to the North Anna ISFSI. Dominion will then update the 10 CFR 72.212 evaluation for the site. NRC staff will consider whether or not to perform a special inspection of the 72.48 and 72.212 evaluations, once completed, and may also inspect the corrective actions and repairs at the North Anna ISFSI.

SFST staff asked questions related to the details of the seismic analyses, including the analysis programs used. In addition, SFST staff indicated that Dominion should make the case that the existing HSM-H configurations are still within the certification basis. SFST staff also asked if there were any indications of corrosion during the boroscopic examinations of the loaded HSM-H's, which appeared to show some standing water. TN and Dominion staff responded that the examinations did not identify any evidence of corrosion or degradation.

A future meeting will be held to discuss the Pad #1 ISFSI at North Anna, which is operated under a site specific license. No regulatory decisions were made at the meeting.

If you have any questions or comments, please contact Jennifer Davis at (301) 492-3371 or [BJennifer.Davis@nrc.gov](mailto:BJennifer.Davis@nrc.gov).

Docket Nos.: 72-16, 72-56  
TAC No.: LA0479

Enclosures:  
As stated

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DISTRIBUTION:

NRC attendees J Vera

G:/SFST/Davis/North Anna/7-23-12 Mtg Summary.doc **ADAMS Package No. ML12243A170**

<b>OFC:</b>	SFST		SFST		SFST	
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<b>DATE:</b>	8/ 27 /2012		8 / 29 /2012		8 / 29 /2012	

\* See previous concurrence

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July 23, 2012  
ATTENDANCE LIST

<u>Name</u>	<u>Affiliation</u>
Mark Lombard	NRC/SFST
Doug Weaver	NRC/SFST
Meraj Rahimi	NRC/SFST
David Pstrak	NRC/SFST
Eric Benner	NRC/SFST
Jennifer Davis	NRC/SFST
Chris Bajwa	NRC/SFST
Bob Carrion	NRC/RII
Earl Love	NRC/SFST
Bob Tripathi	NRC/SFST
Chris Allen	NRC/SFST
John Vera	NRC/SFST
Gordon Bjorkman	NRC/SFST
David Tang	NRC/SFST
Jon Woodfield	NRC/SFST
Joe Borowsky	NRC/SFST
Cary LaRoe	Dominion Power
Brian Wakeman	Dominion Power
David Sommers	Dominion Power
Thomas Szymanski	Dominion Power
Richard Ridder	Dominion Power
John MacCrimmon	Dominion Power
John Guerci	Dominion Power
Kerry Basehore	Dominion Power
Donald Taylor	Dominion Power
Peter Shih	TN
Don Shaw	TN
Prakash Narayanan	TN
Raheel Haroon	TN
Kevin Anstee	TN
Philippe Pham	TN
Ken Boone	TN

**ENCLOSURE 2: DOMINION SLIDES**  
**“NUHOMS<sup>®</sup> HD and ISFSI Pad 2 Overview” July 23, 2012**  
**(Non-proprietary)**

**ENCLOSURE 3: TRANSNUCLEAR, INC., SLIDES**  
**“Licensing Evaluation and Approach – 8/23/11 Seismic Event” July 23, 2012**  
**(Non-proprietary)**

**ENCLOSURE 4: TRANSNUCLEAR, INC., SLIDES**  
**Structural Evaluation – 8/23/11 Seismic Event” July 23, 2012 (Non-proprietary)**

**ENCLOSURE 5: TRANSNUCLEAR, INC., SLIDES**  
**“Shielding Evaluation – 8/23/11 Seismic Event” July 23, 2012 (Non-proprietary)**

**ENCLOSURE 6: TRANSNUCLEAR, INC., PROPRIETARY SLIDES**  
**“Licensing Evaluation and Approach – 8/23/11 Seismic Event,” July 23, 2012**  
**(Proprietary)**

**ENCLOSURE 7: TRANSNUCLEAR, INC., PROPRIETARY SLIDES**  
**“Structural Evaluation – 8/23/11 Seismic Event” July 23, 2012 (Proprietary)**

**ENCLOSURE 8: TRANSNUCLEAR, INC., PROPRIETARY SLIDES**  
**“Shielding Evaluation – 8/23/11 Seismic Event” July 23, 2012 (Proprietary)**

**SLIDES WITHHELD UNDER 10 CFR 2.390**