

March 22, 2002

MEMORANDUM TO: Charles L. Miller, Deputy Director  
Licensing and Inspection Directorate  
Spent Fuel Project Office, NMSS

FROM: Timothy Kobetz, Project Manager **/RA/**  
Licensing Section  
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF THE MARCH 20, 2002, MEETING BETWEEN THE  
NUCLEAR REGULATORY COMMISSION STAFF AND  
TRANSNUCLEAR, INC.

On March 20, 2002, management and staff from the Spent Fuel Project Office (SFPO) met with representatives from Transnuclear, Inc. (TN) to discuss a proposed amendment to the Advanced NUHOMS System, Certificate of Compliance No. 1029. The amendment would allow the storage of additional fuel types in the Advanced NUHOMS system by utilizing a new, slightly longer, dry shielded canister (DSC). The meeting was divided into a non-proprietary segment and a proprietary segment. Attachment 1 is an attendance list. This meeting was noticed on March 4, 2002.

Only small design changes to the cask would be included in the amendment. The changes mostly involve lengthening the cask by approximately 10 inches. TN also plans to modify its analysis methodologies for thermal, shielding, and criticality evaluations to address concerns raised by the staff in the original safety evaluation report for the Advanced NUHOMS System. Southern California Edison (SCE) also participated in the meeting because the fuel types being added are currently being used in San Onofre Units 2 and 3. TN intends to submit the amendment in January 2003. SCE plans to start loading spent fuel from Units 2 and 3 in February 2005 and will lose full core off-load capability for those units in 2007.

During the meeting TN outlined the modifications required to the DSC and analytical methods that will be used to evaluate the DSC modifications. Enclosure 2 contains a copy of the slides presented by TN during the non-proprietary portion of the meeting. The following are highlights of TN's presentation:

- The new DSC will be designated as the 24PT4-DSC.
- The 24PT4-DSC will store Combustion Engineering (CE) 16x16 PWR fuel.
- TN will also submit an amendment request in January 2003 to add the 24PT4-DSC to the MP-197 Transportation Package.
- TN will modify its previous criticality evaluation for the Advanced NUHOMS System to ensure that the bounding fuel and cask tolerances are used in the evaluation. During its review of the initial Advanced NUHOMS System application, the staff did not approve TN's criticality methodology for future changes.

- TN will utilize a 3-D shielding analysis of the Advanced NUHOMS System. During its review of the initial Advanced NUHOMS System application the staff did not approve TN's shielding methodology, which involved a 2-D analysis, for future changes.
- TN described how it has validated its thermal model for the Advanced NUHOMS System against industry data. During its review of the initial Advanced NUHOMS System application the staff did not approve TN's thermal methodology for future changes because TN did not demonstrate that the model was validated.

The thermal methodology validation discussion was considered proprietary by TN and, therefore, closed to public observation. Prior to the proprietary segment TN provided an overview, to public observers, of the information that would be discussed.

No regulatory decisions or commitments were made by NRC during the meeting.

Docket No. 72-1029

Attachments: 1. Attendance List  
2. TN Presentation Slides

- TN will utilize a 3-D shielding analysis of the Advanced NUHOMS System. During its review of the initial Advanced NUHOMS System application the staff did not approve TN's shielding methodology, which involved a 2-D analysis, for future changes.
- TN described how it has validated its thermal model for the Advanced NUHOMS System against industry data. During its review of the initial Advanced NUHOMS System application the staff did not approve TN's thermal methodology for future changes because TN did not demonstrate that the model was validated.

The thermal methodology validation discussion was considered proprietary by TN and, therefore, closed to public observation. Prior to the proprietary segment TN provided an overview, to public observers, of the information that had been discussed.

No regulatory decisions or commitments were made by NRC during the meeting.

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- Attachments: 1. Attendance List  
2. TN Presentation Slides

**DISTRIBUTION:**

Dockets  
SGagner, OPA  
C:\Program Files\Adobe\Acrobat 4.0\PDF Output\3-20-02, Meeting Summary.wpd

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NMSS R/F  
NRC attendees

SFPO R/F  
\*see previous concurrence

OFC:	SFPO	E	SFPO	E	SFPO	E
<b>NAME:</b>	TKobetz*		EZiegler*		JMonniger	
<b>DATE:</b>	03/21/02		03/21/02		03/22/02	

OFFICIAL RECORD COPY

**Attachment 1**  
**Attendance List**

**March 20, 2002, Meeting  
between the Nuclear Regulatory Commission,  
and Transnuclear, Inc.**

ATTENDANCE LIST

<u>Name</u>	<u>Affiliation</u>
Wayne Hodges	NRC/NMSS/SFPO
Tim Kobetz	NRC/NMSS/SFPO
Julia Myers	NRC/NMSS/SFPO
Jack Guttmann	NRC/NMSS/SFPO
Robert Shewmaker	NRC/NMSS/SFPO
Jorge Solis	NRC/NMSS/SFPO
Chris Bajwa	NRC/NMSS/SFPO
Chuck Interrante	NRC/NMSS/SFPO
Mary Jane Ross-Lee	NRC/NMSS/SFPO
Drew Holland	NRC/NRR/DLPM
Tom Michener	PNNL
Robert Grubb	Transnuclear, Inc.
Jayant Bondre	Transnuclear, Inc.
U. B. Chopra	Transnuclear, Inc.
Gregory Banken	Transnuclear, Inc.
Ian McInnes	Transnuclear, Inc.
David Pilmer	Southern California Edison
Vincent Barone	Southern California Edison
Jorge Morales	Southern California Edison
Andrea Jennetta	WNC/Spent Fuel
Maureen Conley	McGraw-Hill
Jim Osborn	HGP, Inc.
Jason Billard	Unaffiliated

## **Attachment 2**

### **TN Presentation Slides**