

December 9, 2011

MEMORANDUM TO: Eric Benner, Acting 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 NOVEMBER 8, 2011, MEETING WITH  
TRANSNUCLEAR, INC., TO DISCUSS AMENDMENT 3 TO  
CERTIFICATE OF COMPLIANCE NO. 1029, FOR THE STANDARDIZED  
ADVANCED NUHOMS® HORIZONTAL MODULAR STORAGE SYSTEM  
FOR IRRADIATED NUCLEAR FUEL

PURPOSE:

For TN staff and the U.S. Nuclear Regulatory Commission (NRC) staff to discuss TN's plans for Amendment No. 3 to Certificate of Compliance (CoC) No. 1029, for the Standardized Advanced NUHOMS® Horizontal Modular Storage System for Irradiated Nuclear Fuel.

MEETING SUMMARY:

The meeting took place on November 8, 2011, from 1:00 p.m. to 4:00 p.m., at the NRC's Executive Boulevard Building in Rockville, Maryland. Attendees included TN staff, NRC's Division of Spent Fuel Storage and Transportation (SFST) staff, Southern California Edison staff, and several members of the public. An attendance list is enclosed (Enclosure 1). The meeting began with introductions, and then discussion about TN's plans to submit Amendment No. 3 to the Standardized Advanced NUHOMS® Horizontal Modular Storage System for Irradiated Nuclear Fuel.

TN staff discussed the scope and projected schedule for Amendment No. 3. The amendment would add new 32PTH2 dry shielded canisters (DSC), new Advanced Horizontal Storage Modules – High-Seismic (AHSM-HS), and would have no changes to the OS200FC transfer cask (TC). The 32PTH2 canister is similar to the 32PTH1 DSC approved under CoC No. 1004, Amendment No. 10, and the AHSM-HS modules are similar to the HSM-HS modules approved under CoC No. 1004, Amendment No. 10. Other changes/details include:

- the DSC shell assembly is designed for added corrosion protection in a marine environment,
- the DSC basket uses metal matrix composite (MMC) material with 3 different boron contents to allow storage of variously enriched fuel, and
- the existing AHSM array can be coupled to the new AHSM-HS array.

For more detail, see TN's slides (Enclosure 2).

SFST staff asked questions related to the seismic analysis for the AHSM-HS, given the recent earthquake event at North Anna and Surry Nuclear Power Plants, which use other TN systems. Staff questioned the projected maximum planar average initial enrichment of 5.10 wt% U-235; SFST has not yet approved any storage applications for enrichment greater than 5 wt%. In addition, there was some discussion regarding TN's definitions of intact fuel, damaged fuel and failed fuel. Staff also stated that the planned amendment may be aggressive with regard to the thermal limits, and stated that benchmarking, sensitivity analyses, and readily usable input files are important.

TN currently plans to submit Amendment No. 3 on December 15, 2011, and have requested that the CoC be issued on or about June 2013. First use of this amendment is expected in the first quarter of calendar year 2014. The NRC Project Manager indicated that the requested review schedule would be assisted by documentation describing the affected utility's need for the planned amendment.

The members of the public in attendance did not have any questions or comments, and no regulatory decisions were made at the meeting. This meeting summary closes TAC L24581.

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 No.: 72-1029  
TAC No.: L24581

Enclosures:  
As stated

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NRC attendees

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**ADAMS Package No. ML12038A179**

<b>OFC:</b>	SFST		SFST		SFST	
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<b>DATE:</b>	12/ 8 /2011		12/ 8 /2011		12/ 9 /2011	

\*See previous concurrence

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November 8, 2011  
ATTENDANCE LIST

<u>Name</u>	<u>Affiliation</u>
Jennifer Davis	NRC/SFST
Sara DePaula	NRC/SFST
Jason Piotter	NRC/SFST
Chris Allen	NRC/SFST
Michael Waters	NRC/SFST
David Tarantino	NRC/SFST
Meraj Rahimi	NRC/SFST
John Goshen	NRC/SFST
Chris Bajwa	NRC/SFST
Michel Call	NRC/SFST
Jimmy Chang	NRC/SFST
George Jackson	TN
Miguel Manrique	TN
Raheel Haroon	TN
Prakash Narayanan	TN
Kamran Tavassoli	TN
Jibli Abraham	TN
Nicole Weimer	TN
Jenzy Mackiewicz	TN
Ian McInnes	TN
Jorge Morales	Southern California Edison
Kristi DeBoi	Southern California Edison
Dennis Evans	Southern California Edison
Maureen Conley	Platts/McGraw-Hill
Carlyn Greene	Ux Consulting

**ENCLOSURE 2: TN SLIDES**  
**“CoC 1029 Amendments 3 Pre-Application Meeting,” November 8, 2011**