

June 24, 2015

MEMORANDUM TO: Tony Hsia, Deputy Director  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

FROM: Jose R. Cuadrado, Project Manager **/RA/**  
Licensing Branch  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: SUMMARY OF JUNE 10, 2015, MEETING WITH AREVA  
TRANSNUCLEAR, INC., TO DISCUSS AMENDMENT NO. 14 TO  
CERTIFICATE OF COMPLIANCE NO. 1004, FOR THE STANDARDIZED  
NUHOMS® HORIZONTAL MODULAR STORAGE SYSTEM

On June 10, 2015, staff from the Division of Spent Fuel Management held a public meeting with representatives from AREVA TN (AREVA) at the U.S. Nuclear Regulatory Commission (NRC) Headquarters in Rockville, MD. The purpose of the meeting was to discuss AREVA's application for Amendment No. 14 to Certificate of Compliance No. 1004 for the Standardized NUHOMS Horizontal Modular Storage System, which was submitted on April 16, 2015. No regulatory decisions were made nor requested at this meeting.

During its presentation, AREVA discussed in detail the scope of the changes to the certificate of compliance requested in its application. The scope of the amendment application includes revisions to the acceptance testing methods for neutron absorber materials; improvement to the fuel qualification tables; the addition of new heat load zone configurations, failed fuel canisters in the 32PTH1 canister, and poison rod assemblies in the 37PTH canister; and general improvements to the technical specification for the storage system. The amendment application also requests the approval for storage of up to 61 damaged fuel assemblies in the 61BTH canister.

During the discussions, NRC staff asked questions related to the technical details of the application and, where necessary, discussed relevant guidance and regulatory requirements, and provided clarification to the applicant of the staff's expectations for the safety analyses. Specifically, the staff sought additional details of AREVA's proposed alternative method for acceptance testing of neutron absorber materials. AREVA's application seeks approval of a volumetric testing method for the measurement of boron carbide content in metal matrix composite materials, in lieu of the neutron transmission testing method currently used by the applicant. AREVA explained that approval of the alternative method is necessary to reduce the supply chain risks arising from the temporary shutdown of the current neutron transmission facility. The Breazeale Reactor at Pennsylvania State University currently performs all neutron

transmission testing of neutron absorber materials for AREVA. The staff sought more technical details of the volumetric testing method proposed by the applicant, and its proposed process to qualify this new method against neutron transmission testing.

The staff discussed the proposed review schedule with the applicant. The staff stated that it expects to issue its first request for additional information (RAI) in early August 2015. If the applicant provides timely and satisfactory responses to these RAIs, the staff expects to complete the technical review and issue a revised Certificate of Compliance, Technical Specifications, and Safety Evaluation Report in support of rulemaking by early February 2016.

The meeting slides (Enclosure 2) and attendance list (Enclosure 1) are enclosed.

Docket No. 72-1004

TAC No. L25011

Enclosures:

1. Attendance List
2. Meeting Slides

T. Hsia

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transmission testing of neutron absorber materials for AREVA. The staff sought more technical details of the volumetric testing method proposed by the applicant, and its proposed process to qualify this new method against neutron transmission testing.

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1. Attendance List
2. Meeting Slides

DISTRIBUTION:

NRC attendees MSampson

G:/SFST/Cuadrado/Transnuclear/Std. NUHOMS Amd 14/Meeting Summary 6-10-15.docx

**ADAMS Package No. ML15176A344 Memo: ML15176A347 Slides: ML15176A466**

<b>OFC:</b>	DSFM		DSFM		DSFM	
<b>NAME:</b>	JCuadrado		WWheatley		JVera for MSampson	
<b>DATE:</b>	6/24/15		6/24/15		6/24/2015	

OFFICIAL RECORD COPY

June 10, 2015  
ATTENDANCE LIST

<u>Name</u>	<u>Affiliation</u>
Jose Cuadrado	NRC/DSFM
Meraj Rahimi	NRC/DSFM
Andrew Barto	NRC/DSFM
John Vera	NRC/DSFM
JoAnn Ireland	NRC/DSFM
Alexis Sotomayor	NRC/DSFM
Tae Ahn	NRC/DSFM
Don Shaw	AREVA TN
Davy Qi	AREVA TN
Prakash Narayanan	AREVA TN
Marlin Stoltz II	AREVA TN
Abbey Donahue	AREVA TN
Philippe Pham	AREVA TN
Steven Edwards	Duke Energy
Ryan Stephens	Duke Energy

**ENCLOSURE 2: AREVA TN SLIDES**  
**“CoC 1004 Amendment 14, Post-Application Submittal Meeting”**  
**June 10, 2015**