



December 20, 2013
E-37324

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

Subject: Revision 6 to Transnuclear, Inc. (TN) Application for Amendment No. 13 to the Standardized NUHOMS[®] System, Response to Second Request for Additional Information (Docket No. 72-1004; TAC No. L24519)

Reference: Letter from Jayant Bondre (TN) to NRC Document Control Desk, "Revision 2 to Transnuclear, Inc. (TN) Application for Amendment No. 13 to the Standardized NUHOMS[®] System, Response to First Request for Additional Information (Docket No. 72-1004; TAC No. L24519)," dated March 19, 2012

Based on discussions with NRC staff, this submittal provides information related to thermal conductivity of certain neutron absorbing materials. Enclosure 2 provides the thermal conductivity graph of Figure 1 from the response to request-for-additional-information (RAI) Item 4-10 provided in the RAI response submittal referenced above, with annotations to show intercept points and curve slopes. Enclosure 3 provides thermal conductivity test reports for certain neutron absorber materials. Enclosure 3 provides thermal conductivity test results for a widely used Metal Matrix Composite of 16% volume boron carbide and 2% volume titanium, with the balance composition consisting of >99% pure aluminum.

Enclosure 3 of this submittal includes proprietary information which may not be used for any purpose other than to support NRC staff review of the application. In accordance with 10 CFR 2.390, I am providing an affidavit (Enclosure 1) specifically requesting that you withhold this proprietary information from public disclosure. Enclosure 4 provides public versions of the Enclosure 3 reports.

Should the NRC staff require additional information to support review of this application, please do not hesitate to contact Mr. Don Shaw at 410-910-6878 or me at 410-910-6820.

Sincerely,

A handwritten signature in black ink that reads "Paul A Triska".

Paul Triska
Vice President, Operations

AREVA TN

NTM 5526

cc: B. Jennifer Davis (NRC SFST) – Cover Letter and Enclosures 1, 2, and 3

Enclosures:

1. Affidavit Pursuant to 10 CFR 2.390
2. Figure 1 from the Response to RAI Item 4-10 Provided in the RAI Response Submittal Referenced Herein, with Annotations to Show Intercept Points and Curve Slopes
3. Three Thermal Conductivity Measurement Reports for Certain Neutron Absorber Materials, performed by Precision Measurements and Instruments Corporation (proprietary versions)
4. Three Thermal Conductivity Measurement Reports for Certain Neutron Absorber Materials, performed by Precision Measurements and Instruments Corporation (public versions)

AREVA TN

Enclosure 2 to E-37324

Figure 1 from the Response to RAI Item 4-10 Provided in the RAI Response Submittal Referenced Herein, with Annotations to Show Intercept Points and Curve Slopes

