



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 cursive script 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

AFFIDAVIT PURSUANT
TO 10 CFR 2.390

Transnuclear, Inc.)
State of Maryland) SS.
County of Howard)

I, Paul Triska, depose and say that I am a Vice President of Transnuclear, Inc., duly authorized to execute this affidavit, and have reviewed or caused to have reviewed the information which is identified as proprietary and referenced in the paragraph immediately below. I am submitting this affidavit in conformance with the provisions of 10 CFR 2.390 of the Commission's regulations for withholding this information.

The information for which proprietary treatment is sought is contained in Enclosure 3 and is described below:

- Three Thermal Conductivity Measurement Reports for Certain Neutron Absorber Materials, performed by Precision Measurements and Instruments Corporation


These documents have been appropriately designated as proprietary.

I have personal knowledge of the criteria and procedures utilized by Transnuclear, Inc. in designating information as a trade secret, privileged or as confidential commercial or financial information.

Pursuant to the provisions of paragraph (b) (4) of Section 2.390 of the Commission's regulations, the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure, included in the document described above, should be withheld.

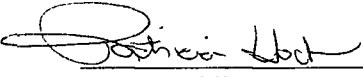
- 1) The information sought to be withheld from public disclosure involves test reports for certain neutron absorbers used in the design of spent nuclear fuel storage systems, which are owned by Transnuclear, Inc.
- 2) The information is of a type customarily held in confidence by Transnuclear, Inc. and not customarily disclosed to the public. Transnuclear, Inc. has a rational basis for determining the types of information customarily held in confidence by it.
- 3) Public disclosure of the information is likely to cause substantial harm to the competitive position of Transnuclear, Inc. because the information consists of test reports for certain neutron absorbers used in the design of spent nuclear fuel storage systems, the application of which provides a competitive economic advantage. The availability of such information to competitors would enable them to modify their product to better compete with Transnuclear, Inc., take marketing or other actions to improve their product's position or impair the position of Transnuclear, Inc.'s product, and avoid developing similar data and analyses in support of their processes, methods or apparatus.

Further the deponent sayeth not.



Paul Triska
Vice President, Transnuclear, Inc.

Subscribed and sworn to me before this 20th day of December, 2013.



Notary Public

My Commission Expires 11 / 17 / 2014

Patricia Hoch
Notary Public
Howard County, MD
My Commission Expires Nov. 17, 2014



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

