



March 19, 2012
E-32439

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

Subject: 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)

Reference: Letter from B. Jennifer Davis (NRC) to Donis Shaw (TN), "First Request for Additional Information for Review of Amendment No. 13 to the Standardized NUHOMS[®] System (TAC No. L24519)," February 14, 2012

This submittal provides responses to the request for additional information (RAI) forwarded by the letter referenced above. Enclosure 2 herein provides each of the RAI items followed by a TN response. Enclosure 3 provides a list of additional changes, not associated with the RAI. Enclosure 4 provides a list of changed Certificate of Compliance (CoC), Technical Specifications (TS), and updated final safety analysis report (UFSAR) pages. Enclosure 5 provides page-replacement instructions. Enclosures 6, 7, and 8 provide CoC, TS, and UFSAR pages, respectively.

In the CoC and TS, changes to reflect ongoing Amendment 11 changes have been made and incorporated. All Amendment 13 TS changes are tracked with italicized text and revision bars, with new changes shaded. Although this Amendment 13 RAI caused no changes to the CoC and only a small number of changes to the TS, based on changes made to the Amendment 11 CoC and TS in 2011, the entire CoC and TS are provided herein.

For the UFSAR, replacement and new Amendment 13 Revision 2 pages and drawings are provided. The pages are annotated as Revision 2, with changes indicated by italicized text and revision bars. New changes are gray shaded to distinguish them from Amendment 11 changes and the changes proposed in Revision 0 and Revision 1 of the Amendment 13 application, except for UFSAR Chapters 10, T.9, and U.9, which contain explanatory notes in the page headers regarding Amendment 11 and Amendment 13 changes.

Enclosures 2, 8, 10, 13, 15 and 17 of this submittal include 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 11 provides a public version of the RAI responses. Enclosure 12 provides public versions of changed proprietary UFSAR drawings and sections. Enclosure 14 provides a public version of

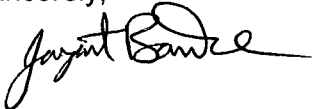
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Enclosure 13. Enclosures 10, 15, and 17 are entirely proprietary and therefore no public version is provided.

Other enclosures, associated with certain RAI items and cited within those RAI responses, are included with the enclosures listed below.

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 410-910-6881.

Sincerely,



Jayant Bondre, PhD
Vice President - Engineering

cc: B. Jennifer Davis (NRC SFST) as follows:

- Four paper copies of this cover letter and Enclosures 1, 2, 3, 4, 5, 6, 7, 8, 9, 13, 15, 16, and 17
- Eleven computer disks, each containing this cover letter and Enclosures 1, 2, 3, 4, 5, 6, 7, 8, 9, 13, 15, 16, and 17
- One copy of Enclosure 10 (one compact disk)

Enclosures:

1. Affidavit Pursuant to 10 CFR 2.390
2. Responses to Request for Additional Information (Proprietary Version)
3. List of Additional Changes, Not Associated with the RAI
4. List of changed CoC, TS, and UFSAR pages
5. CoC, Technical Specifications, and UFSAR Page Replacement Instructions
6. CoC Marked-up for Current Amendment 11 and Proposed Amendment 13 Changes
7. CoC 1004 Amendment 13, Revision 2 Technical Specifications
8. CoC 1004 Amendment 13, Revision 2 Changed UFSAR Drawings and Pages (Proprietary Version)
9. Listing of Computer Files Contained in Enclosure 10
10. Computer Files Associated with CoC 1004 Amendment 13, Revision 2 (one compact disk) (Proprietary)
11. Public Version of Responses to Request for Additional Information
12. Public Versions of Changed Proprietary UFSAR Drawings and Chapters
13. Letter from J. Wesley Davis to George Jackson, Transmittal of M5[®] Data for Application to Oconee Spent Fuel," May 19, 2010 (FAB10-449) (associated with RAI 4-16) (Proprietary)
14. Public Version of Enclosure 13, Letter from J. Wesley Davis to George Jackson, Transmittal of M5[®] Data for Application to Oconee Spent Fuel," May 19, 2010 (FAB10-449) (associated with RAI 4-16)
15. Areva NP Inc. Technical Document 08-9062240-000, "Product Specification – for Uranium Dioxide Pellets," November 14, 2008 (associated with RAI 4-14) (Proprietary)
16. Letter from David G. Huizenga (DOE) to The Honorable John T. Conway, < no subject line >, May 16, 2001 (associated with RAI 4-14)
17. TN E-32402, "Benchmark of LS-DYNA to Extract Stress Intensity," March 9, 2012 (associated with RAI 3-8) (Proprietary)