

March 29, 2011

Mr. Jayant Bondre  
Vice President – Engineering  
Transnuclear, Inc.  
7135 Minstrel Way, Suite 300  
Columbia, MD 21045

SUBJECT: AMENDMENT NO. 1 TO CERTIFICATE OF COMPLIANCE NO. 1030 FOR THE  
NUHOMS® HD SYSTEM

Dear Mr. Bondre:

As requested by your application dated November 1, 2007 (and supplemented on December 15, 2008, February 19, 2009, April 30, 2009, May 26, 2009, June 10, 2009, September 17, 2009, June 17, 2010, July 9, 2010, July 26, 2010, and August 24, 2010), enclosed is Amendment No. 1 to the Certificate of Compliance (CoC) No. 1030 for the Transnuclear, Inc. NUHOMS® HD System. This amended certificate, issued by the U.S. Nuclear Regulatory Commission (NRC), constitutes the approval and conditions for use of the NUHOMS® HD System for storage of spent nuclear fuel under the general licensing provisions of 10 CFR Part 72, Subparts K and L.

The amendment includes the following general changes to the NUHOMS® HD System: revise the definitions for Damaged Fuel Assembly and Transfer Operations; add definitions for Fuel Class and Reconstituted Fuel Assembly; add Combustion Engineering 16x16 class fuel assemblies as authorized contents; reduce the minimum off-normal ambient temperature from -20 °F to -21 °F; expand the authorized contents of the NUHOMS® HD System to include pressurized water reactor fuel assemblies with control components; reduce the minimum initial enrichment of fuel assemblies from 1.5 weight percent uranium-235 to 0.2 weight percent uranium-235; clarify the requirements of reconstituted fuel assemblies; add requirements to qualify metal matrix composite neutron absorbers with integral aluminum cladding; clarify the requirements for neutron absorber tests; delete use of nitrogen for draining the water from the dry shielded canister (DSC), and allow only helium as a cover gas during DSC cavity water removal operations; and make corresponding changes to the technical specifications (TS).

As stated in the *Federal Register* (76 FR 12825, March 9, 2011), the effective date of this CoC amendment is March 29, 2011. The amended CoC (including Appendix A, TS) and NRC's Safety Evaluation Report for this amended CoC are enclosed.

If you have any questions regarding this amended certificate, please contact Jennifer Davis at (301) 492-3371.

Sincerely,

**/RA/**

Michael Waters, Chief  
Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards

Docket No.: 72-1030

Enclosures:

1. Certificate of Compliance No. 1030,  
Amendment No. 1
2. Safety Evaluation Report

If you have any questions regarding this amended certificate, please contact Jennifer Davis at (301) 492-3371.

Sincerely,

**/RA/**

Michael Waters, Chief  
Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards

Docket No.: 72-1030

Enclosures:

- 1. Certificate of Compliance No. 1030, Amendment No. 1
- 2. Safety Evaluation Report

DISTRIBUTION:

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ENCLOSURE 1

CERTIFICATE OF COMPLIANCE NO. 1030  
AMENDMENT NO. 1

ENCLOSURE 2  
SAFETY EVALUATION REPORT