



May 27, 2011
E-31013

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

Subject: Transnuclear, Inc. (TN) Application for the TN-40 Transportation Packaging for Spent Fuel, Revision 15, Docket No. 71-9313, TAC No. L24106

Based on discussions with the NRC Staff, changes have been made to the TN-40 Transportation Application Safety Analysis Report (SAR) to clarify the type of neutron absorber material used.

Enclosure 1 provides instructions for SAR page removal and insertion. The changed SAR pages are provided herein as Enclosures 2 and 3, for the proprietary and non-proprietary SAR versions, respectively. Enclosure 4 provides a listing of the computer files contained on Enclosure 5. The computer files associated with the criticality analysis are provided on a CD as Enclosure 5. The affidavit pursuant to 10 CFR 2.390 is provided in Enclosure 6.

Should the NRC staff require additional information to support review of this application, please do not hesitate to contact Mr. Kamran Tavassoli at 410-910-6944 or me at 410-910-6881.

Sincerely,

Jayant Bondre, PhD
Vice President - Engineering

cc: Huda Akhavannik, Meraj Rahimi (NRC SFST) (8 copies of this cover letter and Enclosures 1 and 2, provided in a separate mailing)

Enclosures:

1. TN-40 Revision 15 SAR Page Replacement Instructions
2. Changed Pages for the TN-40 Application Safety Analysis Report, Revision 15, Proprietary Version
3. Changed Pages for the TN-40 Application Safety Analysis Report, Revision 15, Non-proprietary Version
4. Listing of Disk Numbering and Contents for Computer Files Contained on Enclosure 5 CD (all files are Proprietary)
5. Computer Files Associated with Criticality Analysis on a CD (Proprietary)
6. Affidavit Pursuant to 10 CFR 2.390

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Enclosure 1 to TN E-31013

TN-40 Revision 15 SAR Page Replacement Instructions

Proprietary Version

Old page	Revision 15 Replacement Page
Cover	Cover
Drawings	
10421-71-1, Rev. 4	10421-71-1, Rev. 5

Non-proprietary Version

Old page	Revision 15 Replacement Page
Cover	Cover
Drawings	
10421-71-1, Rev. 4	10421-71-1, Rev. 5

Enclosure 3 to TN E-31013

**Changed Pages for the TN-40 Application Safety Analysis
Report, Revision 15, Non-proprietary Version**


NON-PROPRIETARY



TN-40
TRANSPORTATION PACKAGING
SAFETY ANALYSIS REPORT

Revision 15
May 2011

SECURITY RELATED INFORMATION WITHHELD UNDER 10 CFR 2.390

ALL DIMENSIONS ARE NOMINAL UNLESS A SPECIFIC TOLERANCE IS INDICATED WITH THE DRAWING DIMENSION		 TRANSNUCLEAR AN AREVA COMPANY	
DIMENSIONS ARE IN INCHES AND DECIMALS UNLESS OTHERWISE SPECIFIED. DIMENSIONING IN ACCORDANCE WITH ASME Y14.5M-1994.			
TOLERANCES		SAFETY ANALYSIS REPORT	
DECIMALS	.XX ±.12 .XXX ±.030	TN-40 TRANSPORT PACKAGING PARTS LIST AND NOTES	
ANGLES	6.5°	DRAWING NO. 10421-71-1	
MACHINED SURFACES	250	SCALE	NONE
BREAK AND DEBURR ALL SHARP EDGES		SHEET	1 OF 1
		REVISION	5

Enclosure 4 to TN E-31013

**Listing of Disk Numbering and Contents for Computer Files
Contained on Enclosure 5 CD (all files are Proprietary)**

Disk ID No. (size)	Discipline	System/Component	File Series (topics)	Number of files
Enclosure 05 One CD Nuclear Folder (34.66 MB)	Criticality	TN-40 Criticality Analysis for Poison Material Sensitivity	001- BORAL – Directory	
			TN-40 Boral, Criticality Analysis	4
		TN-40 Criticality Analysis for Depletion with Boron Letdown	002-LETDOWN – Directory	
			TN-40 Boron Letdown, Depletion Analysis	4

Description of the files:

File	Description
001 - BORAL	CSAS25 Files
box_min_o100_gaps.inp	Input File TN-40 Criticality Borated Aluminum Poison
box_min_o100_gaps.out	Output File TN-40 Criticality Borated Aluminum Poison
box_min_o100_gaps_boral.inp	Input File TN-40 Criticality BORAL Poison
box_min_o100_gaps_boral.out	Output File TN-40 Criticality BORAL Poison
002 - LETDOWN	SAS2H Files
boron1-31z00.inp	SAS2H Input File TN-40 - Depletion Linear Average 600 PPM - Assembly Average Burnup
boron1-31z00.out	SAS2H Output File TN-40 - Depletion Linear Average 600 PPM - Assembly Average Burnup
boron2-31z00.inp	SAS2H Input File TN-40 - Depletion Non-Linear Average 675 PPM - Assembly Average Burnup
boron2-31z00.out	SAS2H Output File TN-40 - Depletion Non-Linear Average 675 PPM - Assembly Average Burnup

