



August 13, 2014
E-39020

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

Subject: ANUH-01.0150, Standardized Advanced NUHOMS® Updated Final Safety Analysis Report (UFSAR), Revision 6, and 10 CFR 72.48 Summary Report for the Period 8/14/12 to 8/13/14, Docket 72-1029

Reference: Letter from Jayant Bondre to NRC Document Control Desk, "ANUH-01.0150, Standardized Advanced NUHOMS® Updated Final Safety Analysis Report (UFSAR), Revision 5, and 10 CFR 72.48 Summary Report for the Period 8/13/10 to 8/13/12, Docket 72-1029," August 13, 2012 (E-33024)

Pursuant to 10 CFR 72.248, AREVA Inc. has updated ANUH-01.0150, the Standardized Advanced NUHOMS® UFSAR, last updated by the referenced submittal, and herewith submits UFSAR Revision 6 replacement pages and drawings for docketing. This update incorporates changes implemented by AREVA Inc. pursuant to 10 CFR 72.48, for the time period of 8/14/12 to 8/13/14.

The changed areas are marked as follows:

- New or changed pages show "Rev. 6" and "08/14" in the header.
- Changed areas are indicated using single revision bars in the right-hand margin.
- Newly inserted text is shown by italics.
- Changed areas on drawings are enclosed in clouds.

I certify that this submittal accurately presents changes made since the referenced submittal.

This submittal includes proprietary information which may not be used for any purpose other than to support NRC staff review of the submittal. 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. This submittal also includes security-related information. Accordingly, two versions of replacement pages, Proprietary and Public, are provided, as Enclosures 2 and 3, respectively.

AREVA TN

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Regarding the summary report required to be submitted pursuant to 10 CFR 72.48(d)(2), AREVA Inc. made no changes in facilities or spent fuel storage cask design, no changes in procedures, and no tests or experiments pursuant to paragraph (c)(2) of 10 CFR 72.48 during the period 8/14/12 to 8/13/14 for the Standardized Advanced NUHOMS® System.

Should you have any questions regarding this submittal, please do not hesitate to contact Mr. Don Shaw at 410-910-6878 or me at 410-910-6820.

Sincerely,



Paul Triska
Vice President, Technical Services

cc: B. Jennifer Davis (NRC SFST) as follows, in a separate mailing:

- Two paper copies of the Replacement Pages for ANUH-01.0150, Standardized Advanced NUHOMS® UFSAR, Revision 6 (Proprietary Version)
- Two electronic copies (computer disk) of the ANUH-01.0150, Standardized Advanced NUHOMS® UFSAR, Revision 6 (Proprietary Version)

List of Enclosures:

1. Affidavit Pursuant to 10 CFR 2.390
2. Replacement Pages for ANUH-01.0150, Standardized Advanced NUHOMS® UFSAR, Revision 6 (Proprietary Version)
3. Replacement Pages for ANUH-01.0150, Standardized Advanced NUHOMS® UFSAR, Revision 6 (Public Version)

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Page 1 of 1

Enclosure 3 to E-39020

**Replacement Pages for ANUH-01.0150, Standardized Advanced
NUHOMS® UFSAR, Revision 6 (Public Version)**

NON-PROPRIETARY

UPDATED FINAL SAFETY ANALYSIS REPORT
FOR THE
STANDARDIZED ADVANCED NUHOMS®
HORIZONTAL MODULAR STORAGE SYSTEM
FOR IRRADIATED NUCLEAR FUEL

By

AREVA Inc. (formerly Transnuclear, Inc.)
Columbia, MD

August 2014

REVISION LOG SHEET

UFSAR Revision	Date	Record of Changes/FCNs	Changed Pages
0	3/19/03	None	All
1	3/21/05	FCNs 721029-39, 40, 62, 65, 81, 89, 92, 124, 126, 165, 169 & 175	See List of Effective Pages
2	8/17/06	FCNs 721029-182, 185, 103 R-1, 162 R-1, 166, 173 R-1, 176 R-1, 177 and 204	See List of Effective Pages
3	8/15/08	FCNs 721029-202, 205, 206, 208, 215, 220, 222 R1, 232, 239, 246, 257, 272	See List of Effective Pages
4	8/12/10	FCNs 721029-275, 280 R-1, 285, 294, 303, 311, 312 R-1, 316	See List of Effective Pages
5	8/13/12	FCNs 721029-339, 348, 351, 352, 353, 354, 356, 364	See List of Effective Pages
6	8/13/14	FCN 721029-385	<i>See List of Effective Pages</i>

PROPRIETARY INFORMATION NOTICE

This document contains confidential information of *AREVA Inc., formerly Transnuclear, Inc.*, (hereinafter referred to as *Transnuclear, Inc., Transnuclear, or TN*), and its subcontractors. No use, direct or indirect, and no dissemination or distribution (including publication), direct or indirect, other than to those employees of the Nuclear Regulatory Commission who require any information contained herein is authorized.

Revision 2 of this UFSAR incorporates changes implemented due to the approval of CoC 1029 Amendment 1, effective May 16, 2005. It also incorporates modifications implemented per 10 CFR 72.48 from March 21, 2005 through August 15, 2006.

Revision 3 of this UFSAR incorporates modifications implemented per 10 CFR 72.48 from August 16, 2006 through August 15, 2008. This revision also includes a full list of effective pages.

Revision 4 of this UFSAR incorporates modifications implemented per 10 CFR 72.48 from August 16, 2008 through August 12, 2010.

Revision 5 of this UFSAR incorporates modifications implemented per 10 CFR 72.48 from August 13, 2010 through August 13, 2012.

Revision 6 of this UFSAR incorporates modifications implemented per 10 CFR 72.48 from August 14, 2012 through August 13, 2014.

List Of Effective Pages (Non-Proprietary Version)

Page or description	Rev.	Date
Title Page	6	August 2014
i	6	08/14
ii	3	08/08
iii	6	08/14
iv	5	08/12
v	6	08/14
vi	5	08/12
vii	5	08/12
viii	5	08/12
ix	5	08/12
x	5	08/12
xi	5	08/12
xii	2	08/06
xiii	5	08/12
xiv	2	08/06
xv	5	08/12
xvi	5	08/12
xvii	5	08/12
xviii	2	08/06
xix	5	08/12
xx	5	08/12
xxi	5	08/12
xxii	5	08/12
xxiii	2	08/06
xxiv	2	08/06
xxv	2	08/06
xxvi	2	08/06
LOEP-1	6	08/14
LOEP-1a	6	08/14
LOEP-2	5	08/12
LOEP-3	5	08/12
LOEP-4	5	08/12
LOEP-5	5	08/12
LOEP-6	5	08/12
LOEP-7	5	08/12
LOEP-8	5	08/12
LOEP-9	5	08/12
LOEP-10	5	08/12
LOEP-11	5	08/12
1-1	5	08/12
1.1-1	5	08/12
1.1-2	5	08/12
1.1-3	0	02/03
1.1-4	0	02/03
1.2-1	5	08/12
1.2-2	5	08/12
1.2-3	5	08/12
1.2-4	5	08/12
1.2-5	0	02/03

1.2-6	0	02/03
1.2-7	2	08/06
1.2-8	5	08/12
1.2-9	5	08/12
1.2-10	0	02/03
1.2-11	0	02/03
1.2-12	0	02/03
1.2-13	2	08/06
1.3-1	5	08/12
1.4-1	5	08/12
1.4-2	0	02/03
1.4-3	0	02/03
1.4-4	0	02/03
1.5-1	6	08/14
DWG: (sh. 1 of 3) NUH-05-4010NP	5 ¹	08/11/10
DWG: (sh. 2 of 3) NUH-05-4010NP	5 ¹	Not shown
DWG: (sh. 3 of 3) NUH-05-4010NP	5 ¹	Not shown
DWG: (sh. 1 of 9) NUH-03-4011NP	7 ¹	07/08/14
DWG: (sh. 2 of 9) NUH-03-4011NP	7 ¹	Not shown
DWG: (sh. 3 of 9) NUH-03-4011NP	7 ¹	Not shown
DWG: (sh. 4 of 9) NUH-03-4011	7 ¹	Not shown
DWG: (sh. 5 of 9) NUH-03-4011NP	7 ¹	Not shown
DWG: (sh. 6 of 9) NUH-03-4011NP	7 ¹	Not shown
DWG: (sh. 7 of 9) NUH-03-4011NP	7 ¹	Not shown
DWG: (sh. 8 of 9) NUH-03-4011NP	7 ¹	Not shown
DWG: (sh. 9 of 9) NUH-03-4011NP	7 ¹	Not shown
2.1-1	5	08/12
2.1-2	5	08/12
2.1-3	0	02/03
2.1-4	5	08/12
2.1-5	5	08/12
2.1-6	0	02/03
2.2-1	5	08/12
2.2-2	0	02/03
2.2-3	5	08/12

¹ Because SAR drawings were revised throughout the licensing period, their revision level may be higher than the overall UFSAR revision level.

List Of Effective Pages (Non-Proprietary Version)

Page or description	Rev.	Date
2.2-4	0	02/03
2.2-5	0	02/03
2.2-6	0	02/03
2.2-7	0	02/03
2.2-8	0	02/03
2.2-9	0	02/03
2.3-1	0	02/03
2.3-2	2	08/06
2.3-3	5	08/12

1.5 Supplemental Data

1.5.1 References

- [1.1] 10 CFR Part 72, Rules and Regulations, Title 10, Code of Federal Regulations - Energy, U.S. Nuclear Regulatory Commission, Washington, D.C., "Licensing Requirements for the Independent Storage of Spent Nuclear Fuel and High-Level Radioactive Waste."
- [1.2] U.S. Nuclear Regulatory Commission, Regulatory Guide 3.61, Standard Format and Content for a Topical Safety Analysis Report for a Spent Fuel Dry Storage Cask, February 1989.
- [1.3] U.S. Nuclear Regulatory Commission, "Standard Review Plan for Dry Cask Storage Systems," NUREG 1536, U.S. NRC (January 1997).
- [1.4] Nuclear Regulatory Commission, Safety Evaluation Report of Safety Analysis Report for the Standardized NUHOMS® Horizontal Modular Storage System for Irradiated Nuclear Fuel, December 1994, USNRC Docket No. 72-1004, File NUH003.0103.02.
- [1.5] TN, Safety Analysis Report for the NUHOMS® MP187 Multi-Purpose Cask, NUH-005, Revision 17, July 2003, USNRC Docket No. 71-9255.
- [1.6] TN, Updated Final Safety Analysis Report for the Standardized NUHOMS® Horizontal Modular Storage System for Irradiated Nuclear Fuel, Revision 9, February 2006, File NUH003.0103, USNRC Docket No. 72-1004.
- [1.7] Rancho Seco Independent Spent Fuel Storage Installation, Final Safety Analysis Report, Revision 0, November 2000, USNRC Docket No. 72-11.
- [1.8] 10 CFR Part 71, Rules and Regulations, Title 10, Code of Federal Regulations - Energy, U.S. Nuclear Regulatory Commission, Washington, D.C., "Packaging and Transportation of Radioactive Material."
- [1.9] NRC Certificate of Compliance 72-1004, NUHOMS® General License Spent Fuel Storage System, Amendment No. 8, December 2005.

1.5.2 Drawings

- 24PT1-DSC: NUH-05-4010, Rev. 5 (PROPRIETARY)
- AHSM: NUH-03-4011, Rev. 7 (PROPRIETARY)

PROPRIETARY AND SECURITY RELATED INFORMATION WITHHELD UNDER 10 CFR 2.390

7	REVISED PER FCN 721029-385	7/8/14
6	INCORPORATED FCN 721029-275, -294, -303, -311 AND -316; ADDED SHADES FROM PDF DRAWINGS ON PREVIOUS REVISION	8/10/10
5	INCORPORATED FCN 721029-202, -232, AND -257; UPDATED THE TITLE BLOCK	8/05/08
4	INCORPORATED FCN 721029-103R-1	8/10/06
3	INCORPORATED FCNs 721029-40, -65, AND -165	3/15/05
2	INCORPORATED FCNs 72-1744, 72-1787, 721029-23	3/14/03
1	INCORPORATED ECN 01-0828	5/18/01
0	INITIAL ISSUE	08/27/00
REVISION	DESCRIPTION	DATE
<p>ALL DIMENSIONS ARE NOMINAL, UNLESS A SPECIFIC TOLERANCE IS INDICATED WITH THE DIMENSION</p> <p>DIMENSIONS ARE IN INCHES AND DEGREES UNLESS OTHERWISE SPECIFIED, DIMENSIONING IN ACCORDANCE WITH ASME Y14.5M.</p> <p>INTERPRETATION OF WELD SYMBOLS PER AWS / AWS 2.4</p> <p>U.S. Patent No. 4,780,269 Transnuclear, Inc. <small>This patent may not be disclosed to others in whole or in part, or used for other than the intended purpose without written permission of Transnuclear, Inc.</small></p>		
<p>A TRANSNUCLEAR AN AREVA COMPANY</p> <p>SAFETY ANALYSIS REPORT GENERAL LICENSE NUHOMS® ADVANCED HORIZONTAL STORAGE MODULE MAIN ASSEMBLY</p>		A
<p>Control No. NUH-03-4011</p>		<p>SCALE NONE</p> <p>SHEET 1 OF 8</p>

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WITHHELD UNDER 10 CFR 2.390**

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SHEET 3 OF 9
SECTION 7

**PROPRIETARY AND
SECURITY RELATED INFORMATION
WITHHELD UNDER 10 CFR 2.390**

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DRAWING NO. NUH-03-4011 SHEET 4 OF 9 SECTION 7

**PROPRIETARY AND
SECURITY RELATED INFORMATION
WITHHELD UNDER 10 CFR 2.390**

**PROPRIETARY AND
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6 OF 9
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**PROPRIETARY AND
SECURITY RELATED INFORMATION
WITHHELD UNDER 10 CFR 2.390**

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