

June 12, 2009

MEMORANDUM TO: Mark Delligatti, Chief
Rulemaking Branch B
Division of Intergovernmental Liaison
and Rulemaking (DILR)
Office of Federal and State Materials
and Environmental Management Programs

FROM: Eric J. Benner, Chief /RA/
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

SUBJECT: USER NEED FOR RULEMAKING FOR AMENDMENT NO. 1 TO
TRANSNUCLEAR, INC., NUHOMS®-HD CASK SYSTEM

The following information is being provided to request rulemaking support for the following Division of Spent Fuel Storage and Transportation (SFST) 10 CFR Part 72 licensing activity.

1. Changes to 10 CFR 72.214 rule text (changes appear in bold):

Certificate Number: 1030.

Initial Certificate Effective Date: January 10, 2007.

Amendment Number 1 Effective Date: [insert 75 days from date of FR publication].

SAR Submitted by: Transnuclear, Inc.

SAR Title: Final Safety Analysis Report for the NUHOMS® HD Horizontal Modular Storage System Irradiated Nuclear Fuel.

Docket Number: 72-1030.

Certificate Expiration Date: January 10, 2027.

Model Number: NUHOMS® HD-32PTH

2. Use the following text for the purpose and scope of the amendment:

By application dated November 1, 2007, as supplemented, Transnuclear, Inc. (TN) requested approval of an amendment, under the provisions of 10 CFR Part 72, Subpart K and L, to Certificate of Compliance (CoC) No. 1030 for the NUHOMS® HD Horizontal Modular Storage System for Irradiated Nuclear Fuel. The amendment includes changes to:

CONTACT: B. Jennifer Davis, NMSS/SFST
(301) 492-3371

- add Combustion Engineering (CE) 16x16 class fuel assemblies as authorized contents,
 - reduce the minimum ambient temperature from -20°F to -21°F
 - expand the authorized contents of the NUHOMS® HD System to include Pressurized Water Reactor (PWR) fuel assemblies with Control Components (CCs)
 - reduce the minimum initial enrichment of fuel assemblies from 1.5 wt.% U-235 to 0.2 wt.% U-235,
 - clarify the requirements of reconstituted fuel assemblies,
 - add requirements to qualify metal matrix composite (MMC) neutron absorbers with integral aluminum cladding, and
 - 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.
3. SFST is scheduled to deliver the proposed CoC, Conditions for Cask Use, Technical Specifications, and preliminary Safety Evaluation Report to DILR by July 24, 2009.

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- add Combustion Engineering (CE) 16x16 class fuel assemblies as authorized contents,
 - reduce the minimum ambient temperature from -20°F to -21°F
 - expand the authorized contents of the NUHOMS® HD System to include Pressurized Water Reactor (PWR) fuel assemblies with Control Components (CCs)
 - reduce the minimum initial enrichment of fuel assemblies from 1.5 wt.% U-235 to 0.2 wt.% U-235,
 - clarify the requirements of reconstituted fuel assemblies,
 - add requirements to qualify metal matrix composite (MMC) neutron absorbers with integral aluminum cladding, and
 - delete use of nitrogen for draining the water from the Dry Shielded Canister (DSC0, and allow only helium as a cover gas during DSC cavity water removal operations.
3. SFST is scheduled to deliver the proposed CoC, Conditions for Cask Use, Technical Specifications, and preliminary Safety Evaluation Report to DILR by July 24, 2009.

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OFC	SFST		SFST		SFST	
NAME	JDavis		WWheatley		EBenner	
DATE	6/12/2209		6/12/2009		6/12/2009	

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