

July 22, 2005

MEMORANDUM TO: Mark Delligatti, Chief
Rulemaking & Guidance Branch, Section B
Division of Industrial and Medical
Nuclear Safety, NMSS

FROM: Michael Markley, Acting Chief /RA/
Licensing Section
Spent Fuel Project Office, NMSS

SUBJECT: TRANSNUCLEAR, INC. (TN) NUHOMS®-24PTH, -32PT, and -24PHB
SYSTEMS, AMENDMENT NO. 8 - RULEMAKING

We have completed our technical reviews of the proposed Certificate of Compliance (CoC) No. 1004, Amendment No. 8, the proposed Technical Specifications (TS), and the preliminary Safety Evaluation Report (SER) for the TN NUHOMS®-24PTH, -32PT, and -24PHB Systems. The proposed changes to the CoC, including the TS, are indicated by vertical lines in the margin. The changes proposed for Amendment No. 8 are discussed in the staff's two preliminary SERs, one for the 24PTH system and another for the 32PT and 24PHB systems. We are forwarding these documents to you for inclusion in the proposed rulemaking package for this canister system.

The changes proposed for Amendment No. 8 respective to the 24PTH include: a new dry shielded canister (DSC) design, the 24PTH; a modified horizontal storage module, HSM-H; and a modified transfer cask, the OS197FC TC. The 24PTH design supports a maximum heat load of 40.8 kW, maximum initial enrichment of 5.0 weight %, maximum average burnup of 62GWd/MTU, and minimum cooling time of 3.0 years. By request dated June 10, 2005, TS 1.2.18 and Table 1-1I were augmented to restrict the 24PTH DSC basket heat loading patterns to those analyzed in the SAR. Also, by request dated July 20, 2005, TS 1.2.17c was revised to delete the use of air for blowdown of the 24PTH-DSC prior to drying operations.

The changes proposed for Amendment No. 8 regarding the 32PT and 24PHB systems include: (1) revising the 32PT Dry Shielded Canister (DSC) Fuel Specification and Fuel Qualification Tables to include low enrichment and reconstituted fuel; (2) revising the 32PT DSC Fuel Specification Tables to show minimum soluble boron loading concentration; (3) expanding the authorized contents for the 24PHB DSC; and (4) revising the transfer cask (TC)/DSC handling and lifting height specifications.

The proposed CoC and TS, and preliminary SERs have been placed in ADAMS (see reference below) and are available for your use in the rulemaking package. The Spent Fuel Project Office will designate these documents as Official Agency Records after the Executive Director for Operations has approved the package (ADAMS Package No. ML051610554).

Docket No. 72-1004

ADAMS References: 1. Proposed CoC No. 1004, Amendment 8 (ML051640359)
2. Proposed TS (ML051640360)
3. Preliminary 24PTH SER (ML051640361)
4. Preliminary 32PT and 24PHB SER (ML051640362)

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Distribution:
NMSS r/f NJensen, OGC SBaggett

* See previous concurrence

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