

August 8, 2007

MEMORANDUM TO: Mark Delligatti, Chief
Rulemaking Branch B
Division of Intergovernmental Liaison and Rulemaking, FSME

FROM: Robert Nelson, Chief /RA/
Licensing Branch
Division of Spent Fuel Storage and Transportation, NMSS

SUBJECT: HOLTEC INTERNATIONAL HI-STORM 100 CASK SYSTEM,
AMENDMENT 4, RULEMAKING

We have completed our technical review of the proposed Certificate of Compliance (CoC) No. 1014, Amendment No. 4, the proposed Technical Specifications (TS), and the preliminary Safety Evaluation Report (SER) for the HI-STORM 100 Cask System. The proposed changes to the CoC, including the TS, are indicated by single vertical lines in the margin. We are forwarding these documents to you for inclusion in the proposed rulemaking package for this canister system.

The proposed Amendment No. 4 includes changes to add site specific options to the CoC to permit use of a modified HI-STORM 100 Cask System at the Indian Point Unit 1 (IP1) Independent Spent Fuel Storage Installation (ISFSI). These options include the shortening of the HI-STORM 100S Version B, Multi-Purpose Canister (MPC) -32 and MPC-32F and the HI-TRAC 100D to accommodate site specific restrictions. Additional changes address; the Technical Specifications (TS) definition of "TRANSPORT OPERATIONS," and associated language in the Safety Analysis Report; the soluble boron requirements for Array/Class 14x14E IP1 fuel; the helium gas backfill requirements for Array/Class 14x14E IP1 fuel; the addition of a fifth damaged fuel container design under the TS definition for Damaged Fuel Container; addition of separate burnup, cooling time, and decay heat limits for Array/Class 14x14E IP1 fuel for loading in an MPC-32 and MPC-32F; addition of antimony-beryllium secondary sources as approved contents; the loading of all IP1 fuel assemblies in damaged fuel containers; the preclusion of loading of IP1 fuel debris in the MPC-32 or MPC-32F; the reduction of the maximum enrichment for Array/Class 14x14E IP1 fuel from 5.0 to 4.5 wt% ²³⁵U; changes to licensing drawings to differentiate the IP1 MPC-32 and MPC-32F from the previously approved MPC-32 and MPC-32F; and other editorial changes including replacing all references to US Tool and Die (UST&D) with Holtec Manufacturing Division (HMD).

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The proposed CoC and TS, and preliminary SER have been placed in ADAMS (see reference below) and are available for your use in the rulemaking package. The Division of Spent Fuel Storage and Transportation will designate these documents as Official Agency Records after the Executive Director for Operations has approved the package (ADAMS Package No. ML072220481).

Docket No. 72-1014

ADAMS References: 1. Proposed CoC No. 1014, Amendment 4 (ML072220495)
2. Proposed TS (ML072220498 & ML072220499)
3. Preliminary SER (ML072220500)

M. Delligatti

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