



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 4, 2015

MEMORANDUM TO: James Danna, Chief
Rulemaking and Project Management Branch
Division of Materials Safety, States, Tribal, and Rulemaking
Office of Nuclear Material Safety
and Safeguards

FROM: Michele M. Sampson, Chief **/RA/**
Spent Fuel Licensing Branch
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

SUBJECT: USER NEED FOR RULEMAKING FOR THE HOLTEC HI-STORM 100
CASK SYSTEM, AMENDMENT NO. 9, REVISION NO. 1 (TAC NO.
L24935)

The following information is being provided to request rulemaking support for the following Spent Fuel Management (SFM) 10 CFR Part 72 licensing activity:

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

Certificate Number: 1014

Initial Certificate Effective Date: May 31, 2000

Amendment No. 9, **Revision No. 1, Effective Date: [insert 75 days from date of FR publication]**

SARs Submitted by: Holtec International

SAR Title: Final Safety Analysis Report for the HI-STORM 100 Cask System.

Docket Number: 72-1014

Certificate Expiration Date: May 31, 2020

Model Number: HI-STORM 100

By letter dated July 1, 2014, Holtec International (Holtec) Holtec International (Holtec) submitted a revision request to the U.S. Nuclear Regulatory Commission (NRC) for the HI-STORM 100 Certificate of Compliance (CoC) No. 1014, Amendment No. 9. The proposed changes include the following:

- (a) Change Burnup/Cooling Time limits for thimble plug devices (TPDs),
- (b) Change Metamic-HT testing requirements,

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- (c) Change Metamic-HT minimum guaranteed values (MGVs), and
 - (d) Update fuel definitions to allow boiling water reactor (BWR) fuel affected by certain corrosion mechanisms within specific guidelines to be classified as undamaged fuel.
2. The proposed CoC and Technical Specifications (TS), and preliminary safety evaluation report (SER) have been placed in ADAMS (see references below) and are available for your use in the rulemaking package. DSFM will designate these documents as Official Agency Records after the Executive Director for Operations has approved the package (ADAMS Package No. ML15156A799).

The Office of the General Counsel has reviewed this memorandum with its referenced documents and has no legal objection to its contents.

Docket No. 72-1014

ADAMS References:

1. Proposed CoC 1014 A9 R1, (ML15156A491)
2. Proposed CoC 1014 A9 R1 App A, (ML15156A956)
3. Proposed CoC 1014 A9 R1 App B, (ML15156A970)
4. Proposed CoC 1014 A9 R1 AppB-100U, (ML15156A982)
5. Proposed CoC 1014 A9 R1 AppA-100U, (ML15156B000)
6. Preliminary CoC 1014 A9 R1 SER, (ML15156B011)

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File Location:

G:\SFST\HI-STORM 100\Amendment 9\Revision 1\Rulemaking\CoC A9 R1 User Need.doc
 \Proposed CoC 1014 A9 R1.pdf
 \Proposed CoC 1014 A9 R1 App A.pdf
 \Proposed CoC 1014 A9 R1 App B.pdf
 \Proposed CoC 1014 A9 R1 ppA-100U.pdf
 \Proposed CoC 1014 A9 R1 ppB-100U.pdf
 \Preliminary CoC 1014 A9 R1 SER.doc

ADAMS Package No.: ML15156A799 Memo: ML15156A819

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