



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

February 23, 2016

MEMORANDUM TO: Victor M. McCree  
Executive Director for Operations

FROM: Daniel S. Collins, Director */RA/*  
Division of Material Safety, State, Tribal  
and Rulemaking Programs  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: DIRECT FINAL RULE TO REVISE THE 10 CFR PART 72 LIST OF  
APPROVED SPENT FUEL STORAGE CASKS: HOLTEC  
INTERNATIONAL HI-STORM 100 CASK SYSTEM, CERTIFICATE OF  
COMPLIANCE NO. 1014, AMENDMENT NO. 10 (RIN 3150-AJ71;  
NRC-2015-0270)

Enclosed for your signature is a direct final rule, along with the companion proposed rule (Enclosures 1 and 2), amending the U.S. Nuclear Regulatory Commission's spent fuel storage regulations by revising the Holtec International HI-STORM 100 Cask System listing within the "List of approved spent fuel storage casks" to include Amendment No. 10 to Certificate of Compliance No. 1014. Amendment No. 10 establishes the following

- Adds new fuel classes to the contents approved for the loading of 16x16-pin fuel assemblies into a HI-STORM 100 Cask System.
- Allows a minor increase in manganese in an alloy material for the system's overpack and transfer cask.
- Clarifies the minimum water displacement required of a dummy fuel rod (i.e., a rod not filled with uranium pellets).
- Clarifies the design pressures needed for normal operation of forced helium drying systems.
- Revises Condition No. 9 of CoC No. 1014 to provide clearer guidance on the measurement of air velocity and modeling of heat distribution through the storage system.

CONTACTS: Robert MacDougall, NMSS/MSTR  
(301) 415-5175

John Goshen, NMSS/SFLB  
(301) 415-6933

Notices: Enclosure 3 (Notice of Direct Final Rule Signed by the Executive Director for Operations) documents that you have signed the two *Federal Register* notices and intend to forward them to the Office of the Federal Register unless otherwise directed by the Commission. The appropriate Congressional committees will be notified.

Resources: No additional resources will be needed to implement this rulemaking.

Coordination: The Office of Administration concurs with this amendment. The Office of the General Counsel has no legal objection.

Enclosures:

1. Direct Final Rule
2. Proposed Rule
3. Notice of Direct Final Rule  
Signed by the Executive Director  
for Operations

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<b>OFC</b>	RPMB/MSTR	RPMB/MSTR	SFST/DSFM	OGC
<b>NAME</b>	RMacDougall	TYoung for SWhaley*	J Goshen/ SRuffin*	LLondon/ JBielecki*
<b>DATE</b>	12/7/16	2/5/16	1/13/16	1/27/16
<b>OFC</b>	ADM	QTE	MSTR/NMSS	
<b>NAME</b>	LTerry/ CBladey*	JDougherty	DCollins	
<b>DATE</b>	1/7/16	2/12 /16	2/23/16	

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\*By e-mail