

February 13, 2012

MEMORANDUM TO: Kevin O'Sullivan, Chief
Rulemaking Branch B
Division of Intergovernmental Liaison and Rulemaking, FSME

FROM: Christine A. Lipa, Acting Chief **/RA/**
Licensing Branch
Division of Spent Fuel Storage and Transportation, NMSS

SUBJECT: HOLTEC INTERNATIONAL HI-STORM 100 CASK SYSTEM,
AMENDMENT NO. 9, RULEMAKING (TAC. NO. L24476)

We have completed our technical reviews of the proposed Certificate of Compliance (CoC) No. 1014, Amendment No. 9, the proposed Technical Specifications (TS), and the preliminary Safety Evaluation Report (SER) for the HI-STORM 100 Cask System. Vertical lines in the margin indicate the proposed changes to the CoC and TS. We are forwarding these documents to you for inclusion in the proposed rulemaking package for this canister system.

By letter dated September 10, 2010, as supplemented October 1, 2010, August 11, and November 14, 2011, Holtec International submitted amendment request No. 9 to the U.S. Nuclear Regulatory Commission (NRC) for the HI-STORM 100 CoC No. 1014. The proposed changes provide the following 1) Broaden the subgrade requirements for the HI-STORM 100U (underground) part of the HI-STORM 100 Cask Storage System, and 2) Update the thermal model and methodology for the HI-TRAC transfer cask from a two dimensional thermal-hydraulic model to a more accurate three dimensional model.

The proposed CoC and TS, and preliminary SER will be placed in ADAMS (see reference below) and will be 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. ML120450596).

Docket No.: 72-1014

ADAMS References:

- Enclosure 1: Proposed CoC No. 1014, Amendment No. 9 (ML120440118)
- Enclosure 2: Proposed TS Appendix A (ML120440200)
- Enclosure 3: Proposed TS Appendix B (ML120440246)
- Enclosure 4: Proposed TS Appendix A – 100U (ML120440234)
- Enclosure 5: Proposed TS Appendix B – 100U (ML120440250)
- Enclosure 6: Preliminary SER (ML120440256)

CONTACTS: John Goshen, P.E.
(301) 492-3325

Christine A. Lipa
(301) 492-3151

MEMORANDUM TO: Kevin O'Sullivan, Chief
Rulemaking Branch B
Division of Intergovernmental Liaison and Rulemaking, FSME

FROM: Christine A. Lipa, Acting Chief **/RA/**
Licensing Branch
Division of Spent Fuel Storage and Transportation, NMSS

SUBJECT: HOLTEC INTERNATIONAL HI-STORM 100 CASK SYSTEM, AMENDMENT NO. 9,
RULEMAKING (TAC. NO. L24476)

We have completed our technical reviews of the proposed Certificate of Compliance (CoC) No. 1014, Amendment No. 9, the proposed Technical Specifications (TS), and the preliminary Safety Evaluation Report (SER) for the HI-STORM 100 Cask System. Vertical lines in the margin indicate the proposed changes to the CoC and TS. We are forwarding these documents to you for inclusion in the proposed rulemaking package for this canister system.

By letter dated September 10, 2010, as supplemented October 1, 2010, August 11, and November 14, 2011, Holtec International submitted amendment request No. 9 to the U.S. Nuclear Regulatory Commission (NRC) for the HI-STORM 100 CoC No. 1014. The proposed changes provide the following 1) Broaden the subgrade requirements for the HI-STORM 100U (underground) part of the HI-STORM 100 Cask Storage System, and 2) Update the thermal model and methodology for the HI-TRAC transfer cask from a two dimensional thermal-hydraulic model to a more accurate three dimensional model.

The proposed CoC and TS, and preliminary SER will be placed in ADAMS (see reference below) and will be 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. ML120450596).

Docket No.: 72-1014

ADAMS References:

- Enclosure 1: Proposed CoC No. 1014, Amendment No. 9 (ML120440118)
- Enclosure 2: Proposed TS Appendix A (ML120440200)
- Enclosure 3: Proposed TS Appendix B (ML120440246)
- Enclosure 4: Proposed TS Appendix A – 100U (ML120440234)
- Enclosure 5: Proposed TS Appendix B – 100U (ML120440250)
- Enclosure 6: Preliminary SER (ML120440256)

CONTACTS: John Goshen, P.E.
(301) 492-3325

Christine A. Lipa
(301) 492-3151

Distribution: NMSS r/f

File location: G:\SFST\HI-STORM 100\Amendment 9\Rulemaking\MEMO TO FSME FOR RULEMAKING-CoC&SER ISSUANCE.docx

\HS 100 A9 Proposed CoC.doc
\Proposed AppA A9.doc
\Proposed AppB A9.doc
\Proposed App A-100U A9.doc
\Proposed App B- 100U A9.doc
\HS 100 A9 Preliminary SER.docx

ADAMS Package No.: ML120450596

OFC:	SFST	SFST	SFST	SFST	SFST	SFST
NAME:	JGoshen	WWheatley	GBjorkman	JPiotter	JChang	MSampson
DATE:	2/1/2012	2/ 8 /2012	2/ 9 /2012	1/31 /2012	1/31/2012	2/8 /2012
OFC:	SFST			SFST	SFST	SFST
NAME:	HLindsay			MRahimi	DPstrak	CLipa
DATE:	1/ 27 /2012			2/ 7 /2012	2/ 9 /2012	2/13 /2012

OFFICIAL RECORD COPY