



H O L T E C
I N T E R N A T I O N A L

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December 23, 2004

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: USNRC Docket No. 72-1008
HI-STAR 100 Certificate of Compliance 1008
HI-STAR Final Safety Analysis Report Update per 10 CFR 72.248(c)(6)

Reference: Holtec Project 5014

Dear Sir:

In accordance with 10 CFR 72.248(c)(6), Holtec International herewith submits Revision 2 of the Final Safety Analysis Report (FSAR) for the HI-STAR 100 Dry Spent Fuel Storage System. HI-STAR 100 FSAR Revision 2 includes the effects of all changes to the cask design or procedures made pursuant to 10 CFR 72.48 that were not previously incorporated into the FSAR. All changes implemented up to a maximum of six months prior to this update are included.

FSAR Section 1.0.1 includes a list of Holtec Engineering Change Orders (ECOs) for generic changes to the cask system that are reflected in Revision 2 of the FSAR. A subset of those ECOs represent changes authorized under 10 CFR 72.48. The balance represent changes for which 10 CFR 72.48 was not applicable (e.g., editorial, correction of inconsistency, etc.). A list summarizing the changes to drawings made by Holtec under the provisions of 10 CFR 72.48 since the submittal of FSAR Revision 1 is provided in Attachment 1 to this letter. Updated versions of drawings are provided in FSAR Section 1.5

All changes included in the FSAR text and tables are indicated with a revision bar in the right margin and "Rev. 2" in the lower right corner of the page. If anything in a particular text section (e.g., Section 1.X) changed, the entire section was updated to Revision 2. The revision bars indicate the specific location of the changes on the affected pages. Sections with no changes in this revision still indicate "Rev. 0" or "Rev. 1" in the footer.

Any new or revised figures have been updated individually and include "Rev. 2" in the footer below the figure. Figures that did not change still indicate "Rev. 0" or "Rev. 1" in the footer. Lastly, FSAR Revision 2 includes an updated Table of Contents and List of Effective Pages, indicating the current revision of text pages and figures in the document.



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This FSAR update is provided as an electronic submittal only, in compact disc format.

If you have any questions or require additional information, please contact us.

Sincerely,

Stefan Anton, Dr.-Ing.
Licensing Manager

Approved:

K.P. Singh, Ph.D, P.E.
President and CEO

Document ID: 5014548

Attachment: 1. List of Changes Made to Drawings Pursuant to 10 CFR 72.48

Enclosure: HI-STAR 100 Cask System Final Safety Analysis Report, Revision 2 (CD format).

Distribution: NRC Document Control Desk (original w/attach. and encl.)
Mr. Christopher Regan, USNRC (w/attach. and encl.)
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CERTIFICATION PURSUANT TO 10 CFR 72.248(c)(4)(i)

I hereby certify that the information in HI-STAR FSAR, Revision 2 accurately presents changes made since the submittal of HI-STAR FSAR Revision 1.

Stefan Anton, Dr.-Ing.
Licensing Manager

INFORMATION PERTAINING TO COMPACT DISK SUBMITTAL

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Document Components: One (1) CD-ROM is included with this submission. The CD-ROM labeled "HI-STAR 100 FSAR Rev 2" contains one file:

File Name: HI-STAR 100 FSAR Rev 2.pdf
File Size: 35 Megabytes
Sensitivity Level: Publicly available

Non-document Components: None

**MAJOR CHANGES IMPLEMENTED UNDER 10 CFR 72.48
 HI-STAR FSAR, REVISION 2**

**Table 1
 Changes to DWG 3913 HI-STAR 100 Overpack (Rev. 3, 4 and 5)**

ECO NUMBER	72.48 NUMBER	SUMMARY OF CHANGE
1020-45	N/A	Additional detail was added to drawing in response to USNRC's RAI on Holtec Transportation SAR Amendment Request LAR-9261-2. No design changes were made.

**Table 2
 Changes to DWG 3923 MPC Enclosure Vessel (Rev. 6 through 10)**

ECO NUMBER	72.48 NUMBER	SUMMARY OF CHANGE
1021-51	649	[1] Change the lid to shell weld prep angle for non-F types from "45 degrees" to 30 degrees min". [2] Reduce the thickness of the standard construction MPC-68 lid from 10" to 9-1/2".
5014-87	N/A	Additional detail was added to drawing in response to USNRC's RAI on Holtec Transportation SAR Amendment Request LAR-9261-2. No design changes were made.
5014-99	700	[1] Sheet 3: Change the profile of Detail D for MPC 24 and 68 to have a tapered edge similar to that of the "F" lids. [2] Sheet 4: Change the profile of Detail E for MPC 24 and 68 to have a tapered edge similar to that of the "F" lids.
5014-101	706	Reduce the groove weld between the port cover plate and the MPC lid from 3/16" to 1/8".

**Table 3
 Changes to DWG 3926 MPC-24 Fuel Basket Assembly (Rev. 3, 4 and 5)**

1022-48	N/A	Additional detail was added to drawing in response to USNRC's RAI on Holtec Transportation SAR Amendment Request LAR-9261-2. No design changes were made.
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Table 4
Changes to DWG 3928 MP—68/68F/68FF Fuel Basket Assembly (Rev. 2 through 5)

ECO NUMBER	72.48 NUMBER	SUMMARY OF CHANGE
1021-52	N/A	Additional detail was added to drawing in response to USNRC's RAI on Holtec Transportation SAR Amendment Request LAR-9261-2. No design changes were made.
1021-54	663	1) Delete 1/16" weld size from all sheathing weld symbols. 2) Delete "OR 1-4" Stitch weld pattern from vertical sheathing weld symbol.