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

Subject: USNRC Docket No. 72-1014,
HI-STORM 100 Certificate of Compliance 1014,
HI-STORM 100 Final Safety Analysis Report, Revision 8

Reference: 1. Holtec Project 5014
2. Amendment No. 6 to Certificate of Compliance No. 1014 for the Holtec International HI-STORM 100 Cask System, effective August 17, 2009
3. Amendment No. 4 to Certificate of Compliance No. 1014 for the Holtec International HI-STORM 100 Cask System, effective January 8, 2008

Holtec International herewith submits the Final Safety Analysis Report (FSAR) for the HI-STORM 100 Dry Spent Fuel Storage System, Revision 8, for information.

HI-STORM 100 FSAR Revision 8 includes the effects of all changes to the cask design or procedures reviewed and approved through Amendment 6 to the HI-STORM 100 Certificate of Compliance (Reference 2), except those approved in Amendment 4 (IP1) (Reference 3). This FSAR Revision also includes the effects of changes to the cask design or procedures made pursuant to 10 CFR 72.48 that were not previously incorporated into the FSAR, up to January 10, 2010. This FSAR revision is submitted with revision bars to identify all changes described above.

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 the revision. A subset of those ECOs represents changes authorized under 10 CFR 72.48. The balance represent changes for which 10 CFR 72.48 was not applicable (e.g., editorial or correction of inconsistency).

All changes included in the FSAR text and tables are indicated with a revision bar in the right margin and the revision number in the footer (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 the new revision number. The revision bars indicate the specific location of the changes on the pages. Sections without changes in this revision indicate the last revision number of the section in the footer.

Any new or revised figures have been updated individually and independently of the section and include the new revision number in the footer below the figure. Figures without changes in this revision indicate the last revision number of the figure in the footer. Lastly, the FSAR revision



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includes an updated table of contents and list of effective pages, indicating the current revision of text pages and figures in the document.

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

Sincerely,

Tammy Morin
Licensing Manager
Holtec Technical Services
Holtec International

Enclosure 1: CD labeled "Holtec International Final Safety Analysis Report for the HI-STORM 100 Cask System, Revision 8, USNRC Docket 72-1014 – January 18, 2010" containing the following adobe file, HS 100 FSAR Revision 8 - Jan 18 2010.pdf (~24.1 MB).

Distribution: NRC Document Control Desk (w/Enclosure 1)
Mr. John Goshen, NRC (w/Enclosure 1)
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