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March 26, 2001

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

Subject: USNRC Docket No. 72-1008  
HI-STAR FSAR, Revision 0

References: 1. Holtec Project 5014  
2. HI-STAR 100 Certificate of Compliance 1008

Dear Sir:

On December 21, 2000 the Nuclear Regulatory Commission issued Amendment 1 to the 10 CFR 72 Certificate of Compliance (CoC) and Safety Evaluation Report for the HI-STAR 100 dry cask spent fuel storage system. The amended CoC became effective on December 26, 2000. In accordance with 10 CFR 72.248(a)(1), enclosed herewith please find one copy of Holtec Report No. HI-2012610, Revision 0, comprising the HI-STAR 100 System Final Safety Analysis Report (FSAR). As you are aware, the provisions of 10 CFR 72.248 were not in effect at the time of original certification of the HI-STAR 100 System in October, 1999. Therefore, an FSAR was not issued at that time and TSAR Revision 10 (Holtec Report HI-941184) has been the SAR of record until now. The HI-STAR FSAR supersedes Revision 10 of the HI-STAR TSAR in its entirety. The following differences are noted:

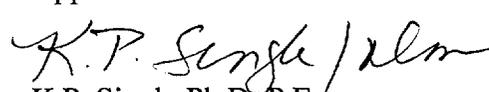
1. Conforming changes to reflect Amendment 1 to the CoC are included.
2. The term "TSAR" is changed to "FSAR" throughout.
3. A small number of typographical errors have been corrected.

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

Sincerely,

  
Brian Gutherman, P.E.  
Licensing Manager

Approval:

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

NMSSOI Public



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cc: Mr. Christopher Jackson, USNRC (w/4 hard copies of FSAR Rev. 0)  
Mr. E. William Brach, USNRC (w/o encl.)

Document ID: 5014412

Enclosure: Revision 0 of the HI-STAR 100 System Final Safety Analysis Report (HI-2012610).

**Technical Concurrence:**

Dr. Alan Soler (Structural Evaluation)

Dr. Indresh Rampall (Thermal Evaluation)

Dr. Everett Redmond II (Shielding Evaluation)

Dr. Stefan Anton (Criticality Evaluation)

Mr. Kris Cummings (Confinement Evaluation)

Mr. Steve Agace (Operations and Radiation Protection)

Mr. Evan Rosenbaum (Accident Evaluation)

Mr. Mark Soler (Quality Assurance)



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