



KPS Technology Campus, 1 Holtec Blvd, Camden, NJ 08104

Telephone (856) 797-0900

Fax (856) 797-0909

October 25, 2019

Pierre Saverot, Project Manager – Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety and Safeguards

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

Docket No.: Docket No. 71-9378 (HI-STAR 100MB Model)

Subject: Submittal of License Amendment Request 9378-1 for Model No. HI-STAR
100MB Transport Package

Dear Mr. Saverot,

Holtec International herewith submits License Amendment Request (LAR) 9378-1 proposing certain changes to the HI-STAR 100MB Certificate of Compliance (CoC) Number 9378 Revision 0 and its corresponding supporting Safety Analysis Report (SAR) Revision 2. A complete and updated SAR (Revision 3) is provided with this LAR. The SAR's Revision Summary Log section includes information on the SAR's revision status and configuration control.

This LAR presents several proposed enhancements to the HI-STAR 100MB SAR, along with their respective enhancements to the safety analysis. All significant enhancements are identified in the summary of proposed changes (SOPC) provided in Enclosure 1 to facilitate the staff's review. The SOPC includes reasons and justifications for various safety significant changes.

Enclosure 2 contains Holtec's proposed changes to the Certificate of Compliance (CoC) for the staff's convenience. Enclosures 3 and 4 contain the Safety Analysis Report (SAR) for the HI-STAR 100MB Package (both proprietary and non-proprietary versions).

Enclosures 5 through 11 contain various supporting documents such as calculation packages and other technical reports. Supporting documents which were submitted under previous licensing action under Docket No. 71-9378 and that have not been revised are not included in this submittal.

NM5501



Enclosure 12 is an affidavit prepared in accordance with 10 CFR 2.390 requesting that Enclosures marked proprietary be withheld from public disclosure due to their proprietary nature.

If you have any questions, then please contact me at 856-797-0900, ext. 3931.

Sincerely,

Brian Seawright
Licensing Engineer
Holtec International

cc: (letter only)
Andrea Kock, USNRC
Dan Doyle, USNRC

Enclosures:

- Enclosure 1: Summary of Proposed Changes (SOPC) for HI-STAR 100MB LAR 9378-1 (Holtec Proprietary Information)
- Enclosure 2: Holtec Proposed CoC 71-9378 Revision 1 for the HI-STAR 100MB Package (Holtec Non-Proprietary Information)
- Enclosure 3: HI-STAR 100MB Safety Analysis Report (SAR), HI-2188080, Revision 3 (Holtec Proprietary Information)
- Enclosure 4: HI-STAR 100MB Safety Analysis Report (SAR), HI-2188080, Revision 3 (Holtec Non-Proprietary Information)
- Enclosure 5: Finite Element Analysis of HI-STAR 100MB Transport Package Drop Accidents, HI-2188068, Revision 1 (Holtec Proprietary Information)
- Enclosure 6: Structural Calculation Package for HI-STAR 100MB, HI-2188083, Revision 3 (Holtec Proprietary Information)
- Enclosure 7: Thermal Evaluations of HI-STAR 100MB in Transport, HI-2188066, Revision 4 (Holtec Proprietary Information)
- Enclosure 8: Shielding Analysis for the HI-STAR 100MB System, HI-2188049, Revision 3 (Holtec Proprietary Information)



KPS Technology Campus, 1 Holtec Blvd, Camden, NJ 08104

Telephone (856) 797-0900

Fax (856) 797-0909

- Enclosure 9: Criticality Evaluation of HI-STAR 100MB, HI-2188084, Revision 2
(Holtec Proprietary Information)
- Enclosure 10: Containment Analysis of HI-STAR 100MB, HI-2188669, Revision 0
(Holtec Proprietary Information)
- Enclosure 11: Source Term Generation Using Scale 6.2.1, HI-2188050, Revision 1
(Holtec Proprietary Information)
- Enclosure 12: Affidavit Pursuant to 10 CFR 2.390 to Withhold Information from Public
Disclosure