HOLTEC INTERNATIONAL

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April 30, 2021

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

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

Docket No.: 71-9378 (HI-STAR 100MB Model)
EPID No.: L-2019-LLA-0242

Subject: Submittal of the Second RAI Reponses for the Review of the Model No. HI-STAR 100MB Package License Amendment Request

Reference(s): [1] "Second Request for Additional Information for the Review of the Model No. HI-STAR 100MB Package" (Letter from Pierre Saverot (NRC) to Brian Seawright (Holtec) dated December 10, 2020)

Dear Mr. Saverot:

By letter dated December 10, 2020 [1], NRC staff documented a second request for additional information (RAIs) that are required to complete their detailed technical review of HI-STAR 100MB transportation package amendment request 9378-1. Holtec's responses to NRC staff second RAIs and supporting information are in the enclosures to this letter. In addition to the RAI Responses, this SAR revision reflects additional editorial enhancements incorporated under Holtec QA program. The supporting information in this letter includes Revision 5 of the HI-STAR 100MB SAR.

Responses to the second RAI Chapters 1, 2, 3, and 5 are provided in Enclosure 1 to this letter. Enclosure 2 contains the non-proprietary version of the RAI responses. Enclosure 3 contains Revision 5 of the HI-STAR 100MB SAR in support of the RAI responses, and Enclosure 4 contains the proprietary version. Enclosures 5, 6, 7, and 8 contain technical reports, and as necessary, computer data files in support of the changes made to the licensing bases in support of the second RAI responses and the final HI-STAR 100MB SAR.

The information in Enclosures 1, 4, 5, 6, 7, and 8 are considered proprietary by Holtec. Therefore, Enclosure 9 is an affidavit prepared in accordance with 10 CFR 2.390 requesting that Enclosures 1, 4, 5, 6, 7, and 8 to this letter be withheld from public disclosure due to their proprietary nature.

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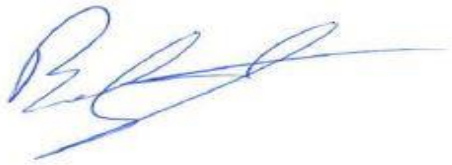
If you have any questions, please contact me at (856)-797-0900, ext. 3931.

Sincerely,



Brian Seawright
Licensing Engineer
Holtec International

cc: (Via email)
John McKirgan, USNRC

Enclosures: (1, 4, 5, 6, 7, and 8 contain Holtec Proprietary Information)
Enclosure 1: Holtec's Responses to Second RAIs (Holtec Proprietary Information)
Enclosure 2: Holtec's Responses to Second RAIs (Holtec Non-Proprietary Information)
Enclosure 3: HI-STAR 100MB SAR Revision 5 (Holtec Non-Proprietary Information)
Enclosure 4: HI-STAR 100MB SAR Revision 5 (Holtec Proprietary Information)
Enclosure 5: Benchmarking of Material Stress-Strain Curves in LS-DYNA (Holtec Proprietary Information)
Enclosure 6: Finite Element Analysis for HI-STAR 100MB Drop Accidents (Holtec Proprietary Information)
Enclosure 7: Shielding Analysis for the HI-STAR 100MB System (Holtec Proprietary Information)
Enclosure 8: Containment Analysis of HI-STAR 100MB (Holtec Proprietary Information)
Enclosure 9: Affidavit Pursuant to 10 CFR 2.390 to Withhold Information from Public Disclosure