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February 16, 2018

Pierre Saverot, Project Manager – Spent Fuel Licensing Branch
Division of Spent Fuel Management
Office of Nuclear Material Safety and Safeguards
ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Docket No.: 71-9378
EPID No.: L-2018-NEW-0000

Subject: Application Request for a Certificate of Compliance (CoC) for Holtec's Model No.
HI-STAR 100MB Type B(U)F-96 Transportation Package

Dear Mr. Saverot,

Holtec International herewith submits its application for the design certification of the HI-STAR 100MB Transportation Package pursuant to 10 CFR Part 71.

Enclosure 1 contains Holtec's proposed Certificate of Compliance (CoC) for your convenience. Enclosures 2 and 3 contain non-proprietary and proprietary versions of the Safety Analysis Report (SAR) on the HI-STAR 100MB Package, respectively. Enclosures 4 through 10 contain calculation packages and computer input/output data files for analyses performed for the HI-STAR 100MB SAR.

Enclosure 11 to this letter is an affidavit prepared in accordance with 10 CFR 2.390 requesting that Enclosures 3 through 10 be withheld from public disclosure due to their proprietary nature.

If you have any questions, please contact me at (856)-797-0900 ext. 3844.

Sincerely,

Royston Ngwayah
Licensing Engineer
Holtec International

cc: Mike Layton (NRC)
John McKirgan (NRC)



Enclosures:

- Enclosure 1: Proposed CoC No. 9378 for the HI-STAR 100MB Package (Non-Proprietary)
- Enclosure 2: "Safety Analysis Report (SAR) on the HI-STAR 100MB Package", Report HI-2188080 Rev. 0 (Non-Proprietary)
- Enclosure 3: "Safety Analysis Report (SAR) on the HI-STAR 100MB Package", Report HI-2188080 Rev. 0 (Holtec Proprietary Information)
- Enclosure 4: "Finite Element Analyses of HI-STAR 100MB Transport Package Drop Accidents", Report HI-2188068R0 and Input/Output data files (Holtec Proprietary Information)
- Enclosure 5: "Structural Calculation Package for HI-STAR 100MB", Report HI-2188083R0 and Input/Output data files (Holtec Proprietary Information)
- Enclosure 6: "Thermal Evaluations of HI-STAR 100MB in Transport", Report HI-2188066R0 and Input/Output data files (Holtec Proprietary Information)
- Enclosure 7: "Effective fuel properties in HI-STAR 100MB Fuel Baskets", Report HI-2177974R0 and Input/Output data files (Holtec Proprietary Information)
- Enclosure 8: "Shielding Analysis for the HI-STAR 100MB System", Report HI-2188049R0 and Input/Output data files (Holtec Proprietary Information)
- Enclosure 9: "Source Term Generation Using Scale 6.2.1", Report HI-2188050R0 and Input/Output data files (Holtec Proprietary Information)
- Enclosure 10: "Criticality Evaluation of HI-STAR 100MB", Report HI-2188084R0 and Input/Output data files (Holtec Proprietary Information)
- Enclosure 11: Affidavit Pursuant to 10 CFR 2.390 to Withhold Information from Public Disclosure