



December 20, 2022

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. 71-9325 (HI-STAR 180 Model)

Subject: Submittal of License Amendment Request 9325-5 for Model No. HI-STAR 180
Transport Package

Dear Mr. Saverot,

Holtec International is pleased to submit License Amendment Request (LAR) 9325-5 proposing certain changes to the HI-STAR 180 Certificate of Compliance (CoC) Number 9325 Revision 4 and its supporting Safety Analysis Report (SAR), Holtec Report HI-2073681 Revision 9. This LAR proposes enhancements mainly for fabrication flexibility; specifically, introducing an alternative monolithic shield cylinder design and variants of the existing F-32 and F-37 fuel baskets. The safety analysis has been revised accordingly.

The summary of proposed changes (SOPC) reiterating the proposed enhancements, including the reasons and justifications for each, is provided in Enclosure 1 to facilitate the Staff's review.

Enclosure 2 contains Holtec's proposed changes to the Certificate of Compliance (CoC) for the staff's convenience.

The complete and updated HI-STAR 180 SAR (Revision 10) is provided with this LAR. The SAR's Revision Summary Log section includes information on the SAR's revision status and configuration control. Proprietary and non-proprietary versions of the SAR are submitted herewith as Enclosures 3 and 4, respectively.

Enclosure 5 contains the drawings that make up the licensing drawing package.

Enclosures 6 through 10 contain the supporting calculation packages.

Doc. I.D.: 1553046-NRC When separated from the enclosures, this cover letter is non-proprietary.



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As Enclosures 1, 3, & 5-10 are considered proprietary, an affidavit requesting that the information therein be withheld from public disclosure in accordance with 10 CFR 2.390 is contained in Enclosure 11.

If you have any questions, then please contact me at 856-797-0900, ext. 3848.

Sincerely,

A handwritten signature in blue ink, appearing to read "C O'Mullane".

Christopher O'Mullane
Licensing Engineer
Holtec International

cc: (letter only w/o attachments via email)
Kimberly Manzione (Holtec)



Enclosures:

- Enclosure 1: Summary of Proposed Changes (SOPC) for HI-STAR 180 LAR 9325-5 (Holtec Proprietary Information)
- Enclosure 2: Holtec Proposed CoC 71-9325 Revision 5 for the HI-STAR 180 Package (Holtec Non-Proprietary Information)
- Enclosure 3: HI-STAR 180 Safety Analysis Report (SAR), HI-2073681, Revision 10 (Holtec Proprietary Information)
- Enclosure 4: HI-STAR 180 Safety Analysis Report (SAR), HI-2073681, Revision 10 (Holtec Non-Proprietary Information)
- Enclosure 5: HI-STAR 180 Cask Licensing Drawing No. 4845, Rev. 16
HI-STAR 180 Optional MSC Licensing Drawing No. 12951, Rev. 1
HI-STAR 180 F-37 Basket Licensing Drawing No. 4847, Rev. 9
HI-STAR 180 F-37CBS Basket Licensing Drawing No. 12955, Rev. 1
HI-STAR 180 F-32 Basket Licensing Drawing No. 4848, Rev. 9
HI-STAR 180 F-32CBS Basket Licensing Drawing No. 12956, Rev. 1
HI-STAR 180 Impact Limiter Licensing Drawing No. 5062, Rev. 8 (Holtec Proprietary Information)
- Enclosure 6: Holtec Report HI-2073654, Criticality Analysis for the HI-STAR 180, Revision 10 (Holtec Proprietary Information)
- Enclosure 7: Holtec Report HI-2063552, Structural Calculation Package for the HI-STAR 180 Transport Cask System, Revision 20 (Holtec Proprietary Information)
- Enclosure 8: Holtec Report HI-2063584, Finite Element Analysis Supporting HI-STAR 180 SAR, Revision 9 (Holtec Proprietary Information)
- Enclosure 9: Holtec Report HI-2073649, Thermal Analysis of the HI-STAR 180, Revision 13 (Holtec Proprietary Information)
- Enclosure 10: Holtec Report HI-2220169, Shielding Analysis for Revised HI-STAR 180 MSC Design, Revision 1 (Holtec Proprietary Information)
- Enclosure 11: Affidavit Pursuant to 10 CFR 2.390 to Withhold Information from Public Disclosure