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September 23, 2015

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

Docket No.: 71-9375

Subject: Supporting Information for the HI-STAR ATB 1T Transport Package Safety Analysis Report

Reference(s): [1] “Application Request for a Certificate of Compliance (CoC) for Holtec’s Model No. HI-STAR ATB 1T Type B(U)-96 Transportation Package,” Holtec Letter 2404001-NRC, from Royston Ngwayah (Holtec) to Pierre Saverot (NRC), dated September 23, 2015.

Dear Mr. Saverot,

We are hereby pleased to submit the enclosed supporting information for Holtec’s application for the design certification of the HI-STAR ATB 1T Transportation Package pursuant to 10 CFR Part 71. Enclosures 1 through 9 of this letter contain calculation packages and computer input/output files for analyses performed for the HI-STAR ATB 1T SAR. The Safety Analysis Report (SAR) for the application is submitted in [1].

Enclosure 10 to this letter is an affidavit prepared in accordance with 10 CFR 2.390 requesting that Enclosures 1 through 9 be withheld from public disclosure due to their proprietary nature.

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

Sincerely,

Royston Ngwayah
Licensing Engineer
Holtec International

NM5501



cc: (letter only w/o enclosures via email)
Michele Sampson, USNRC
Mark Lombard, USNRC
Holtec Users Group

Enclosures (1-9 contain Holtec Proprietary Information):

- Enclosure 1: Structural Calculation Package for the HI-STAR ATB 1T (Drops), HI-2156584, Revision 0
- Enclosure 2: Structural Calculation Package for the HI-STAR ATB 1T Transport Cask System (Supplementary Calculations), HI-2156750, Revision 0
- Enclosure 3: Structural – Supporting Computer Input/Output Data Files corresponding to HI-2156584 (Enclosure 1) and HI-2156750 (Enclosure 2)
- Enclosure 4: Thermal Evaluation of the HI-STAR ATB 1T Transport Cask, HI-2156585, Revision 0
- Enclosure 5: Thermal – Supporting Computer Input/Output Data File corresponding to HI-2156585 (Enclosure 4)
- Enclosure 6: Shielding Analysis for the HI-STAR ATB 1T, HI-2156583, Revision 0
- Enclosure 7: Shielding – Supporting Computer Input/Output Data Files corresponding to HI-2156583 (Enclosure 6)
- Enclosure 8: Containment Analysis for the HI-STAR ATB 1T, HI-2156697, Revision 0
- Enclosure 9: Structural LS-DYNA Benchmarking Report for the HI-STAR ATB 1T, HI-2156765, Revision 0
- Enclosure 10: Affidavit Pursuant to 10 CFR 2.390 to Withhold Information from Public Disclosure

AFFIDAVIT PURSUANT TO 10 CFR 2.390

I, Debu Majumdar, being duly sworn, depose and state as follows:

- (1) I have reviewed the information described in paragraph (2) which is sought to be withheld, and am authorized to apply for its withholding.
- (2) The information sought to be withheld are Enclosures 1 through 9 to Holtec Letter 2404002-NRC, which contain Holtec Proprietary information.
- (3) In making this application for withholding of proprietary information of which it is the owner, Holtec International relies upon the exemption from disclosure set forth in the Freedom of Information Act ("FOIA"), 5 USC Sec. 552(b)(4) and the Trade Secrets Act, 18 USC Sec. 1905, and NRC regulations 10CFR Part 9.17(a)(4), 2.390(a)(4), and 2.390(b)(1) for "trade secrets and commercial or financial information obtained from a person and privileged or confidential" (Exemption 4). The material for which exemption from disclosure is here sought is all "confidential commercial information", and some portions also qualify under the narrower definition of "trade secret", within the meanings assigned to those terms for purposes of FOIA Exemption 4 in, respectively, Critical Mass Energy Project v. Nuclear Regulatory Commission, 975F2d871 (DC Cir. 1992), and Public Citizen Health Research Group v. FDA, 704F2d1280 (DC Cir. 1983).

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- (4) Some examples of categories of information which fit into the definition of proprietary information are:
- a. Information that discloses a process, method, or apparatus, including supporting data and analyses, where prevention of its use by Holtec's competitors without license from Holtec International constitutes a competitive economic advantage over other companies;
 - b. Information which, if used by a competitor, would reduce his expenditure of resources or improve his competitive position in the design, manufacture, shipment, installation, assurance of quality, or licensing of a similar product.
 - c. Information which reveals cost or price information, production, capacities, budget levels, or commercial strategies of Holtec International, its customers, or its suppliers;
 - d. Information which reveals aspects of past, present, or future Holtec International customer-funded development plans and programs of potential commercial value to Holtec International;
 - e. Information which discloses patentable subject matter for which it may be desirable to obtain patent protection.

The information sought to be withheld is considered to be proprietary for the reasons set forth in paragraphs 4.a, 4.b and 4.e above.

- (5) The information sought to be withheld is being submitted to the NRC in confidence. The information (including that compiled from many sources) is of a sort customarily held in confidence by Holtec International, and is in fact so held. The information sought to be withheld has, to the best of my knowledge and belief, consistently been held in confidence by Holtec International. No public disclosure has been made, and it is not available in public sources. All disclosures to third parties, including any required transmittals to the NRC, have been made, or must be made, pursuant to

AFFIDAVIT PURSUANT TO 10 CFR 2.390

regulatory provisions or proprietary agreements which provide for maintenance of the information in confidence. Its initial designation as proprietary information, and the subsequent steps taken to prevent its unauthorized disclosure, are as set forth in paragraphs (6) and (7) following.

- (6) Initial approval of proprietary treatment of a document is made by the manager of the originating component, the person most likely to be acquainted with the value and sensitivity of the information in relation to industry knowledge. Access to such documents within Holtec International is limited on a "need to know" basis.
- (7) The procedure for approval of external release of such a document typically requires review by the staff manager, project manager, principal scientist or other equivalent authority, by the manager of the cognizant marketing function (or his designee), and by the Legal Operation, for technical content, competitive effect, and determination of the accuracy of the proprietary designation. Disclosures outside Holtec International are limited to regulatory bodies, customers, and potential customers, and their agents, suppliers, and licensees, and others with a legitimate need for the information, and then only in accordance with appropriate regulatory provisions or proprietary agreements.
- (8) The information classified as proprietary was developed and compiled by Holtec International at a significant cost to Holtec International. This information is classified as proprietary because it contains detailed descriptions of analytical approaches and methodologies not available elsewhere. This information would provide other parties, including competitors, with information from Holtec International's technical database and the results of evaluations performed by Holtec International. A substantial effort has been expended by Holtec International to develop this information. Release of this information would improve a competitor's position because it would enable Holtec's competitor to copy our technology and offer it for sale in competition with our company, causing us financial injury.

AFFIDAVIT PURSUANT TO 10 CFR 2.390

- (9) Public disclosure of the information sought to be withheld is likely to cause substantial harm to Holtec International's competitive position and foreclose or reduce the availability of profit-making opportunities. The information is part of Holtec International's comprehensive spent fuel storage technology base, and its commercial value extends beyond the original development cost. The value of the technology base goes beyond the extensive physical database and analytical methodology, and includes development of the expertise to determine and apply the appropriate evaluation process.

The research, development, engineering, and analytical costs comprise a substantial investment of time and money by Holtec International.

The precise value of the expertise to devise an evaluation process and apply the correct analytical methodology is difficult to quantify, but it clearly is substantial.

Holtec International's competitive advantage will be lost if its competitors are able to use the results of the Holtec International experience to normalize or verify their own process or if they are able to claim an equivalent understanding by demonstrating that they can arrive at the same or similar conclusions.

The value of this information to Holtec International would be lost if the information were disclosed to the public. Making such information available to competitors without their having been required to undertake a similar expenditure of resources would unfairly provide competitors with a windfall, and deprive Holtec International of the opportunity to exercise its competitive advantage to seek an adequate return on its large investment in developing these very valuable analytical tools.

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Document ID 2404002-NRC
Non-Proprietary Enclosure 10

AFFIDAVIT PURSUANT TO 10 CFR 2.390

STATE OF NEW JERSEY)
)
) ss:
COUNTY OF BURLINGTON)

Debu Majumdar, being duly sworn, deposes and says:

That he has read the foregoing affidavit and the matters stated therein are true and correct to the best of his knowledge, information, and belief.

Executed at Marlton, New Jersey, this 23rd day of September, 2015.



Debu Majumdar
Director, Engineering Analysis
Holtec International

Subscribed and sworn before me this 23rd day of September, 2015.



MARIA C. MASSI
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires April 26, 2020



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Reference(s): [1] "Supporting Information for the HI-STAR ATB 1T Transport Package Safety
Analysis Report," Holtec Letter 2404002-NRC, from Royston Ngwayah (Holtec)
to Pierre Saverot (NRC), dated September 23, 2015.

Dear Mr. Saverot,

We are pleased to submit Holtec's application for the design certification of the HI-STAR ATB
1T 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 the Safety
Analysis Report (SAR) for the HI-STAR ATB 1T Package. Supporting information for the SAR
is submitted in [1].

Enclosure 4 to this letter is an affidavit prepared in accordance with 10 CFR 2.390 requesting
that Enclosures 1 and 2 be withheld from public disclosure due to its proprietary nature.

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

Sincerely,

Royston Ngwayah
Licensing Engineer
Holtec International



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cc: (letter only w/o enclosures via email)
Michele Sampson, USNRC
Mark Lombard, USNRC
Holtec Users Group

Enclosures:

- Enclosure 1: Holtec Proposed Certificate of Compliance (No. 9375) for the HI-STAR ATB 1T (Holtec Proprietary Information)
- Enclosure 2: HI-STAR ATB 1T Safety Analysis Report (SAR), HI-2146312, Revision 0 (Holtec Proprietary Information)
- Enclosure 3: HI-STAR ATB 1T Safety Analysis Report (SAR) HI-2146312, Revision 0 (Non-Proprietary)
- Enclosure 4: Affidavit Pursuant to 10 CFR 2.390 to Withhold Information from Public Disclosure