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March 11, 2016

Mr. Mark Lombard
Division of Spent Fuel Management
Office of Nuclear Material Safety and Safeguards

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

Docket No. 72-1032, Certificate of Compliance (CoC) No. 1032

Subject: Holtec International HI-STORM Flood/Wind Multipurpose Canister Storage System
Amendment Request 1032-4

Dear Mr. Lombard:

Holtec International herein submits a request to amend Certificate of Compliance (CoC) 72-1032 for the HI-STORM FW MPC Storage System. This amendment request 1032-4 seeks to:

- 1) Add two new MPCs to the HI-STORM FW System (MPC-32ML and MPC-31C)
- 2) Add partial gadolinium credit for certain BWR fuel assemblies

A summary of the proposed changes (SOPC), with more detailed description of the changes, reason for the changes and justification for the changes, is provided in Attachment 1. Attachments 2 through 4 contain changes for the CoC and its appendices. Attachment 5 provides the proposed changed pages of the HI-STORM FW FSAR, which support the LAR, and Attachment 6 provides nonproprietary versions of these pages. All proposed changes in Attachments 2 through 5 are provided in mark-up format to facilitate the Staff's review. Note that the marked changes are only those associated with this LAR 1032-4. Changes associated with previous amendments, up to and including HI-STORM FW Amendment 3, are included but not marked as changes, since that LAR request is under separate technical review.

A proprietary drawing package showing the new MPCs is contained in Attachment 7, and Attachments 8 through 15 contain proprietary calculation packages and input files related to those calculation packages. Since some attachments to this letter contain Holtec proprietary

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information, an affidavit is herein submitted in accordance with 10 CFR 2.390 to withhold information contained in this report from public disclosure.

If you have any questions please contact me at 856-797-0900 ext 3951.

Sincerely,

Kimberly Manzione
Licensing Manager,
Holtec International

cc: (via email)

Mr. Tony Hsia, USNRC

Mr. Jose Cuadrado, USNRC

Attachments:

- Attachment 1: Summary of Proposed Changes for HI-STORM FW LAR 1032-4
- Attachment 2: Proposed CoC 1032 Amendment 4
- Attachment 3: Proposed CoC 1032 Amendment 4 Appendix A
- Attachment 4: Proposed CoC 1032 Amendment 4 Appendix B
- Attachment 5: HI-STORM FW FSAR Proposed Changed pages (proprietary)
- Attachment 6: HI-STORM FW FSAR Proposed Changed pages (non-proprietary)
- Attachment 7: MPC-31C and MPC-32ML Drawing Package (proprietary)
- Attachment 8: HI-2166998 Rev 0, Structural Calculation Package (proprietary)
- Attachment 9: HI-2094418 Rev 12, Supplement 20, Structural Calculation Package (proprietary)
- Attachment 10: Structural Input Files for Attachments 8 and 9 (proprietary)
- Attachment 11: HI-2094400 Rev 14, Appendices G, R, S, and T, Thermal Calculation Package (proprietary)
- Attachment 12: HI-2094356 Rev 5, Appendices E and F, Thermal Calculation Package (proprietary)
- Attachment 13: Thermal Input Files for Attachments 11 and 12 (proprietary)
- Attachment 14: HI-2094432 Rev 7, Appendices L through O, Criticality Calculation Package (proprietary)
- Attachment 15: Criticality Input Files for Attachment 14 (proprietary)
- Attachment 16: Affidavit Pursuant to 10 CFR 2.390

AFFIDAVIT PURSUANT TO 10 CFR 2.390

I, Kimberly Manzione, 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 is Attachments 5 and 7 through 15 to Holtec Letter 5018043, which contains 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 4e 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

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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.

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- (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 5018043
Non-Proprietary Attachment 16

AFFIDAVIT PURSUANT TO 10 CFR 2.390

STATE OF NEW JERSEY)
)
COUNTY OF BURLINGTON)

ss:

Kimberly Manzione, being duly sworn, deposes and says:

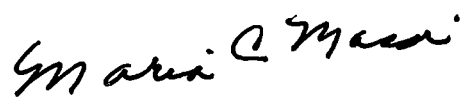
That she has read the foregoing affidavit and the matters stated therein are true and correct to the best of her knowledge, information, and belief.

Executed at Marlton, New Jersey, this 11th day of March, 2016.



Kimberly Manzione
Licensing Manager
Holtec International

Subscribed and sworn before me this 11th day of March, 2016.



MARIA C. MASSI
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires April 25, 2020