HOLTEC INTERNATIONAL

Holtec Technology Campus, 1 Holtec Blvd, Camden, NJ 08104
Telephone (856) 797-0900
Fax (856) 797-0909

August 11, 2021

Yen Chen, Project Manager
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. 72-1014, Certificate of Compliance (CoC) No. 1014
EPID: L-2021-LLA-0039

Subject: HI-STORM 100 Amendment 16 Responses to Requests for Supplemental Information

Reference: [1] NRC Letter, "Acceptance Review of Request for Amendment No. 16 to Certificate of Compliance No. 1014 for the HI-STORM 100 Multipurpose Canister Storage System (Docket No. 72-1014, CAC No. 001028, EPID: L-2021-LLA-0039) – Request for Supplement Information," dated July 12, 2021, from Y. Chen (NRC) to B. Seawright (Holtec)

Dear Ms. Chen:

By letter dated July 12, 2021 [1], NRC staff documented requests for supplemental information (RSIs) that are required to begin their detailed technical review of HI-STORM 100 amendment request 1014-16. Holtec appreciates the NRC staff review of Holtec's application for Amendment No. 16 to the HI-STORM 100 System and understands that supplemental information is needed. This letter provides the responses to those requests.

On June 27, 2021, a public meeting was held between the NRC and Holtec to discuss the NRC staff's feedback related to the CoC changes made following the process developed and described in RIRP-I-16-01 (ML17138A119), also referred to as the graded approach. To ensure the feedback received during this public meeting is best addressed, the revised documentation that incorporates the graded approach will be submitted by the end of September.

Holtec's responses to NRC staff RSIs and supporting information are in the enclosures to this letter. The responses to RSIs are provided in Attachment 1, with Attachment 2 being a non-

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proprietary copy. The changed pages to the proposed CoC Appendix D following the currently approved format of 1014 are provided in Attachment 3. Changes to the FSAR as result of these RSIs are included in Attachment 4 and 5 for both non-proprietary and proprietary versions, respectively. Attachments 6 contains the revised licensing drawing supporting the RSI responses. Attachments 7 through 9 contain supporting proprietary documents for the changes made with regards to the RSI responses and the changes made to the licensing bases.

Since some attachments to this letter contain Holtec proprietary information, an affidavit requesting this information be withheld in accordance with 10CFR2.390 is included as Attachment 10.

Please contact me at (856) 797-0900 Extension 3931 if you have any questions or require any additional information.

Sincerely,

Brian Seawright
Licensing Engineer
Holtec International

cc: (via email)
John McKirgan, USNRC

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Attachments:

Attachment 1: HI-STORM 100 Amendment 16 RSI Responses (proprietary)
Attachment 2: HI-STORM 100 Amendment 16 RSI Responses (non-proprietary)
Attachment 3: HI-STORM 100 Amendment 16 Certificate of Compliance Appendix D, changed pages (non-proprietary)
Attachment 4: HI-STORM 100 FSAR Proposed Revision 21A, changed pages (non-proprietary)
Attachment 5: HI-STORM 100 FSAR Proposed Revision 21A, changed pages (proprietary)
Attachment 6: Changes to the Proposed Licensing Drawings (proprietary)
Attachment 7: Revised Redundant Port Cover Closure Summary (proprietary)
Attachment 8: HI-2043317R47, HI-STORM Thermal-Hydraulic Analyses Supporting Up to 36.9kW High Heat Load Amendment, Appendix N (proprietary)
Attachment 9: HI-2210138R1, Thermal Evaluations of HI-STORM 100 Version UVH (proprietary)
Attachment 10: Affidavit in Accordance with 10 CFR 2.390