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August 31, 2022

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, CAC No.: 001028

Subject: HI-STORM 100 Amendment 16 Responses to Requests for Additional Information  
(Batches 1 and 2)

Reference:

[1] "Amendment No. 16 To Certificate of Compliance No. 1014 for the HI-STORM 100 Multipurpose Canister Storage System – Request for Additional Information First Batch," letter from Y. Chen (NRC) to D. Elisio (Holtec) dated July 1, 2022. ADAMS Accession No. ML22167A120

[2] "Amendment No. 16 To Certificate of Compliance No. 1014 for the HI-STORM 100 Multipurpose Canister Storage System – Request for Additional Information Second Batch," letter from Y. Chen (NRC) to D. Elisio (Holtec) dated August 5, 2022. ADAMS Accession No. ML2208A223

[3] "Schedule for Responses to HI-STORM 100 Amendment 16 Requests for Additional Information Batch 1," letter from D. Elisio (Holtec) to Y. Chen (NRC) dated July 15, 2022. ADAMS Accession No. ML22196A086

Dear Ms. Chen:

By letters dated July 1, 2022 [1], and August 5, 2022 [2], NRC staff documented Requests for Additional Information (RAI Batches 1 and 2) to support review of HI-STORM 100 amendment request 1014-16. On July 15, 2022 [3], Holtec submitted a schedule for the responses to Batch 1



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of the RAIs. For convenience, Holtec has provided the responses to all RAIs of Batch 1 and the Materials RAIs of Batch 2 in this letter. Holtec will provide responses to the Shielding RAIs of Batch 2 in a future letter.

The responses to RAIs are provided in Attachment 1, with Attachment 2 being a non-proprietary copy. Changes to the FSAR as result of these RAIs are included in Attachment 3 and 4 for both proprietary and non-proprietary versions, respectively. Attachments 5, 6, and 7 contain proprietary documents supporting the RAI responses.

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 8.

Please contact me at (856) 797-0900 Extension 3326 if you have any questions or require any additional information.

Sincerely,

Denise Elisio  
Licensing Engineer  
Holtec International

cc: (via email)  
Yoira Diaz-Sanabria (USNRC)  
Kimberly Manzione (Holtec)



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**Attachments:**

- Attachment 1: HI-STORM 100 Amendment 16 RAI Responses (proprietary)
- Attachment 2: HI-STORM 100 Amendment 16 RAI Responses (non-proprietary)
- Attachment 3: HI-STORM 100 FSAR Proposed Revision 21B, changed pages (proprietary)
- Attachment 4: HI-STORM 100 FSAR Proposed Revision 21B, changed pages (non-proprietary)
- Attachment 5: HI-2210316R1, Aging Management Evaluation for the HI-STORM 100 Version UVH (proprietary)
- Attachment 6: HI-2210138R2, Thermal Evaluations of HI-STORM 100 Version UVH (proprietary)
- Attachment 7: HI-2210007R0, High Density Concrete Sourcebook (proprietary)
- Attachment 8: Affidavit in Accordance with 10 CFR 2.390