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May 6, 2021

Yen-Ju Chen
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. 72-1032. Certificate of Compliance (CoC) No. 1032

Subject: HI-STORM FW Amendment 7 Request

Dear Ms. Chen:

Holtec International herein submits a request to amend Certificate of Compliance (CoC) 72-1032 for the HI-STORM FW MPC Storage System. The proposed changes include two additional MPC types, and the addition of the option to deploy the HI-STORM FW system in an unventilated configuration. The proposed changes do not reduce any of the safety metrics, operational flexibility, or radiation protection features imbedded in the HI-STORM FW system. In addition, the proposed changes include the reorganization of the CoC.

A summary of all 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 current draft CoC and its appendices. Attachment 5 and 6 provide the changed pages of the HI-STORM FW FSAR which support this LAR in proprietary and non-proprietary versions. All proposed changes in Attachments 2 through 6 are provided in mark-up format to facilitate the Staff's review, with the exception of Supplement I. Since this supplement is completely new, no changes are marked. Note that the marked changes are only those associated with this LAR 1032-7. Changes associated with previous amendments, up to and including HI-STORM FW Amendment 6, are included but not marked as changes, since that LAR request is under separate technical review. Supporting proprietary documents, including a drawing and calculation packages, are included as Attachments 7 through 21. Attachments 22 through 24 contain the reorganized CoC and its appendices following RIRP-I-16-01, with Attachments 25 through 28 containing the supporting reorganization matrix and evaluations.

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 Document ID 5018083

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Attachment 29.

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:

John McKirgan (NRC)
Kim Manzione (Holtec)

Attachments:

- Attachment 1: HI-STORM FW Amendment 7 Summary of Proposed Changes
- Attachment 2: HI-STORM FW Amendment 7 Certificate of Compliance
- Attachment 3: HI-STORM FW Amendment 7 Certificate of Compliance, Appendix A
- Attachment 4: HI-STORM FW Amendment 7 Certificate of Compliance, Appendix B
- Attachment 5: HI-STORM FW FSAR Proposed Revision 9 revised pages (proprietary)
- Attachment 6: HI-STORM FW FSAR Proposed Revision 9 revised pages (non-proprietary)
- Attachment 7: Proposed Revised Licensing Drawings (proprietary)
- Attachment 8: Redundant Port Cover Closure Summary (proprietary)
- Attachment 9: Critical Dimension Report for MPC Baskets (proprietary)
- Attachment 10: Critical Dimension Report for HI-STORM FW Version UVH (proprietary)
- Attachment 11: Structural Calculation Package with Supplements 1, 43, 44, 45, 46, and 47 (proprietary)
- Attachment 12: HI-STORM FW Version UVH Non-Mechanistic Tipover Analysis (proprietary)
- Attachment 13: HI-STORM FW Version E Non-Mechanistic Tipover Analysis with Appendices C and D (proprietary)
- Attachment 14: HI-STORM FW Tornado Missile Analysis with Appendices I and J (proprietary)
- Attachment 15: Shielding Calculation Package (proprietary)
- Attachment 16: Criticality Calculation Package (proprietary)
- Attachment 17: Thermal Calculation Package (proprietary)
- Attachment 18: Thermal Evaluation of HI-STORM Version UVH (proprietary)



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- Attachment 19: Thermal Evaluation of MPC-37P (proprietary)
- Attachment 20: Effective Thermal Properties of PWR Fuel (proprietary)
- Attachment 21: Effective Thermal Properties of PWR and BWR Fuel Assemblies of HI-STORM
Version UVH (proprietary)
- Attachment 22: HI-STORM FW Amendment 7 Certificate of Compliance Reorganization
- Attachment 23: HI-STORM FW Amendment 7 Certificate of Compliance, Appendix A
Reorganization
- Attachment 24: HI-STORM FW Amendment 7 Certificate of Compliance, Appendix B
Reorganization
- Attachment 25: HI-STORM FW Amendment 7 Certificate of Compliance Reorganization Matrix
- Attachment 26: HI-STORM FW Amendment 7 Certificate of Compliance Reorganization
Evaluation Form
- Attachment 27: HI-STORM FW Amendment 7 Certificate of Compliance, Appendix A
Reorganization Evaluation Form
- Attachment 28: HI-STORM FW Amendment 7 Certificate of Compliance, Appendix B
Reorganization Evaluation Form
- Attachment 29: Affidavit in Accordance with 10 CFR 2.390