UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 20, 2019

MEMORANDUM TO: June Cai, Chief
Materials Rulemaking
and Project Management Branch
Division of Rulemaking, Environmental, and Financial Support
Office of Nuclear Material Safety
and Safeguards

FROM: Daniel I. Doyle, Acting Chief ***/RA/***
Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

SUBJECT: USER NEED FOR RULEMAKING FOR THE HOLTEC HI-STORM FLOOD/WIND MULTIPURPOSE CANISTER STORAGE SYSTEM, AMENDMENT NO. 4

The purpose of this communication is to request support for rulemaking activities in the Division of Fuel Management (DFM) for the following Title 10 of the *Code of Federal Regulations* (10 CFR) Part 72 licensing action:

1. Changes to 10 CFR 72.214 rule text (changes appear in bold):

   Certificate Number: 1032.
   Initial Certificate Effective Date: June 13, 2011, superseded by Amendment Number 0, Revision 1, on April 25, 2016.
   * * *
   Amendment Number 4 Effective Date: [insert 75 days from date of *Federal Register* publication].
   SARs Submitted by: Holtec International.
   SAR Title: Final Safety Analysis Report for the HI–STORM FW System.
   Docket Number: 72-1032.
   Certificate Expiration Date: June 12, 2031.
   Model Numbers: HI-STORM FW MPC-32ML, MPC-37, and MPC-89.

2. By letter dated March 11, 2016, and as supplemented on September 16, 2016, January 31, 2017, April 27, 2018, July 27, 2018, April 12, 2019, June 11, 2019, and July 5, 2019, Holtec International submitted an amendment request to the U.S. Nuclear Regulatory Commission for the HI-STORM Flood/Wind Multipurpose Canister Storage System Certificate of Compliance (CoC) No. 1032. The proposed changes include the following:

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1) Add MPC-32ML for storage in HI-STORM FW system and allow fuel assembly class 16x16D as content for MPC-32ML.
2) Add fuel assembly class 16x16E as content for MPC-37.
3) Separate the design pressure for the short-term operation from the off normal condition to provide clarity in final safety analysis report (FSAR) Table 2.2.1.
4) Add a caution note in FSAR Section 9.2.1 that states fuel cladding is not exposed to air during loading operations.
5) Update the definition of “undamaged fuel assembly” in FSAR Glossary to be aligned with the definition in Appendix A and FSAR Table 2.1.3 (Note 14).
6) Replace Charpy test program with fracture toughness test program from the revised Metamic-HT Sourcebook (Holtec, 2017b) in FSAR Sections 1.2.1.4.1 and 3.4.
7) Add a caution note in FSAR Section 9.2.3 that states low-enriched fuel must be shown to be without known or suspected grossly breached rods.

3. The proposed CoC, CoC Appendix A—Technical Specifications, CoC Appendix B—Approved Contents and Design Features, and preliminary safety evaluation report (SER) have been placed in ADAMS (see references below) and are available for your use in the rulemaking package. DFM will designate these documents as Official Agency Records after the Executive Director for Operations has approved the package (ADAMS Package No. ML19158A271).

The Office of the General Counsel has reviewed this memorandum with its referenced documents and has no legal objection to its contents.

DOCKET No.: 72-1032
CAC No.: 001028
EPID: L-2017-LLA-0030

ADAMS References:
1. Proposed CoC 1032 Amendment No. 4 (ML19158A273)
2. Proposed CoC 1032 Amendment No. 4 Appendix A (ML19158A274)
3. Proposed CoC 1032 Amendment No. 4 Appendix B (ML19158A275)
4. Preliminary CoC 1032 Amendment No. 4 SER (ML19158A276)

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ADAMS Accession No.: Package: ML19158A271, Memo: ML19158A272
* concur by email

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