



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

January 16, 2018

Mr. Coley C. Chappell
Manager, Design and Programs
Entergy Nuclear Operations, Inc.
Vermont Yankee
320 Governor Hunt Road
Vernon, VT 05354

SUBJECT: VERMONT YANKEE NUCLEAR POWER STATION INDEPENDENT SPENT FUEL STORAGE INSTALLATION ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT RELATED TO ISSUANCE OF EXEMPTION TO ALLOW A NEW LOADING PATTERN AND LOADING FUEL COOLED FOR AT LEAST 2 YEARS (CAC NO. 001028; DOCKET NOS.: 50-271, 72-59, and 72-1014; EPID: L-2017-LLE-0005)

Dear Mr. Chappell:

Enclosed is a copy of the environmental assessment and Finding of No Significant Impact related to your application for an exemption dated May 16, 2017 (Agency-wide Documents Access and Management System (ADAMS) Accession No. ML17142A354), and supplemented on September 7, 2017 (ADAMS Accession No. ML17255A236) and December 7, 2017 (ADAMS Accession No. ML17346A685), with respect to using Holtec International, Inc. (Holtec) Certificate of Compliance (CoC) No. 1014, Amendment No. 10.

The proposed action would allow Vermont Yankee Nuclear Power Station to use a new regionalized loading pattern as described in Holtec's Amendment No. 12 to CoC No. 1014, Appendix B, Figure 2.4-1; load fuel that has been cooled for at least 2 years in the Multi-purpose Canister (MPC)-68M; and establish a per-cell maximum average burnup limit at 65,000 megawatt days per metric ton of uranium (MWD/MTU) as described in Holtec's Amendment No. 11 application, Appendix B, Table 2.1-1, Section VI. This would be permitted under exemption from the following requirements of Title 10 of the *Code of Federal Regulations*, Part 72, sections:

- 10 CFR 72.212(a)(2), which states that the "...general license is limited to storage of spent fuel in casks approved under the provisions of this part."
- 10 CFR 72.212(b)(3), which states that the general licensee must "Ensure that each cask used by the general licensee conforms to the terms, conditions, and specifications of a CoC or an amended CoC listed in § 72.214."
- 10 CFR 72.212(b)(5)(i), which states that "The cask, once loaded with spent fuel or once the changes authorized by an amended CoC have been applied, will conform to the terms, conditions, and specifications of a CoC or an amended CoC listed in § 72.214."

- 10 CFR 72.212(b)(11), which states that “The licensee shall comply with the terms, conditions, and specifications of the CoC and, for those casks to which the licensee has applied the changes of an amended CoC, the terms, conditions, and specifications of the amended CoC, including but not limited to, the requirements of any AMP put into effect as a condition of the NRC approval of a CoC renewal application in accordance with § 72.240.” and
- 10 CFR 72.214, which states that “The following casks are approved for storage of spent fuel under the conditions specified in their Certificates of Compliance.”

This assessment is being forwarded to the Office of the Federal Register for publication. If you have any questions, please contact me at (301) 415-1018.

Sincerely,

/RA/

Yen-Ju Chen, Senior Project Manager
Spent Fuel Licensing Branch
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

CAC NO. 001028
Docket Nos.: 50-271, 72-59, and 72-1014
EPID: L-2017-LLE-0005

Enclosure:
Environmental Assessment

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ADAMS Accession No.: Package: ML17249A157; Ltr: ML17249A159 Enclosure (EA): ML17249A160

OFC	NMSS	NMSS	OGC	NMSS
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DATE	9/6/2017	9/6/2017	10/16/2017	1/16/2018

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