



**Entergy Nuclear Operations, Inc.**  
Vermont Yankee  
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Tel 802 257 7711

**David J. Mannai**  
Manager, Licensing

BVY 10-009

February 5, 2010

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

SUBJECT: ISFSI Annual Radioactive Effluent Release Report  
Vermont Yankee Nuclear Power Station  
Docket No. 50-271  
License No. DPR-28

Dear Sir or Madam:

In accordance with 10CFR72.44(d)(3), Entergy Nuclear Vermont Yankee hereby submits the Independent Spent Fuel Storage Installation (ISFSI) annual effluent report for the previous calendar year.

By design, the seal welded storage canisters of the Holtec HI-STORM 100 Cask System used at Vermont Yankee do not create any radioactive materials or have any radioactive material effluents. The seal welded storage system design provides assurance that there are no radioactive effluent release pathways from the storage casks.

This letter documents that there were no radioactive effluents discharged or released from the Vermont Yankee ISFSI and therefore no ISFSI-specific data to report for calendar year 2009.

There are no new regulatory commitments being made in this submittal.

Should you have any questions concerning this submittal, please contact me at (802) 451-3304.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Mannai", with a long horizontal flourish extending to the right.

[DJM/JTM]

IE17  
NMSS

cc: Mr. Samuel J. Collins, Region 1 Administrator  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406-1415

Director, Spent Fuel Project Office  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Mr. James S. Kim, Project Manager  
U.S. Nuclear Regulatory Commission  
Mail Stop O 8 C2A  
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USNRC Resident Inspector  
Entergy Nuclear Vermont Yankee  
320 Governor Hunt Road  
Vernon, Vermont 05354

Mr. David O'Brien, Commissioner  
VT Department of Public Service  
112 State Street – Drawer 20  
Montpelier, Vermont 05620