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Michael J. Colomb
Site Vice President

BVY 11-015

February 15, 2011

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

SUBJECT: License Renewal Application Supplemental Information
Vermont Yankee Nuclear Power Station
Docket No. 50-271
License No. DPR-28

REFERENCES: 1. Letter, Entergy to USNRC, "License Renewal Application," BVY
06-09, dated January 25, 2006

Dear Sir or Madam:

On January 25, 2006, Entergy Nuclear Operations, Inc. and Entergy Nuclear Vermont Yankee, LLC (Entergy) submitted the License Renewal Application (LRA) for the Vermont Yankee Nuclear Power Station (VYNPS) as indicated by Reference 1.

Attachment 1 of this letter provides supplemental information to the LRA to address questions discussed with the NRC staff on a teleconference held on February 15, 2011.

This letter contains no new regulatory commitments.

Should you have any questions or require additional information concerning this submittal, please contact Mr. Robert Wanczyk at 802-451-3166.

I declare under penalty of perjury, that the foregoing is true and correct.

Executed on February 15, 2011.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael J. Colomb".

[MJC/PLC]

A117
NRC

Attachments: 1. License Renewal Application Supplemental Information

cc: Mr. Eric J. Leeds, Director
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USNRC Resident Inspector
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Ms. Elizabeth Miller, Commissioner
VT Department of Public Service
112 State Street – Drawer 20
Montpelier, Vermont 05620-2601

Attachment 1

**Vermont Yankee Nuclear Power Station
License No. DPR-28 (Docket No. 50-271)**

License Renewal Application

Supplemental Information

Vermont Yankee Nuclear Power Station License Renewal Application - Supplemental Information

Vermont Yankee Nuclear Power Station (VYNPS) provides the following supplemental information to address questions discussed with the NRC staff on a teleconference held on February 15, 2011.

Background

VYNPS provided additional information related to the Neutron Absorber Monitoring Program in License Renewal Application (LRA) supplemental information letters dated October 14, 2010 (BVY 10-052), December 21, 2010 (BVY 10-058), February 4, 2011 (BVY 11-010) and February 10, 2011 (BVY 11-013). The LRA indicated that the Water Chemistry Control – BWR Program was the only aging management program for neutron absorbing materials in the spent fuel racks. This letter provides administrative changes to the LRA to clarify that the Neutron Absorber Monitoring Program is also credited as an aging management program for neutron absorbing material in the spent fuel racks.

The list of aging management programs in Section 3.3.2.1.5 of the LRA is revised to read as follows:

3.3.2.1.5 Fuel Pool Cooling Systems

Aging Management Programs

The following aging management programs manage the effects of aging on fuel pool cooling systems components.

- Service Water Integrity
- System Walkdown
- Water Chemistry Control – BWR
- Neutron Absorber Monitoring

Section 3.3.2.2.6 of the LRA is revised to read as follows:

3.3.2.2.6 Reduction of Neutron-Absorbing Capacity and Loss of Material due to General Corrosion

Loss of material and cracking are aging effects requiring management for Boral spent fuel storage racks exposed to a treated water environment. These aging effects are managed by the Water Chemistry Control – BWR Program.

The Neutron Absorber Monitoring Program manages the reduction in neutron-absorbing capacity and loss of material.

Item number 3.3.1-13 of LRA Table 3.3.1 is revised to read as follows:

Table 3.3.1: Auxiliary Systems, NUREG-1801 Vol. 1					
Item Number	Component	Aging Effect/Mechanism	Aging Management Programs	Further Evaluation Recommended	Discussion
3.3.1-13	Boral, boron steel spent fuel storage racks neutron-absorbing sheets exposed to treated water or treated borated water	Reduction of neutron-absorbing capacity and loss of material due to general corrosion	Plant specific	Yes, plant specific	The Water Chemistry Control – BWR program manages loss of material. The Neutron Absorber Monitoring Program manages reduction of neutron-absorbing capacity and loss of material. See Section 3.3.2.2.6

The aging management evaluation for the neutron absorber (Boral) components in LRA Table 3.3.2-5 is revised to read as follows:

Table 3.3.2-5: Fuel Pool Cooling Systems								
Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG-1801 Vol. 2 Item	Table 1 Item	Notes
Neutron absorber (Boral)	Neutron absorption	Aluminum/boron carbide	Treated water (ext)	Cracking	Water Chemistry Control - BWR		3.3.1-13	H
Neutron absorber (Boral)	Neutron absorption	Aluminum/boron carbide	Treated water (ext)	Loss of material	Water Chemistry Control - BWR	VII.A2-3 (A-89)	3.3.1-13	E
Neutron absorber (Boral)	Neutron absorption	Aluminum/boron carbide	Treated water (ext)	Loss of neutron-absorbing capacity/Loss of material	Neutron Absorber Monitoring	VII.A2-3 (A-89)	3.3.1-13	A

- References:
1. Letter, Entergy to USNRC, "License Renewal Application Supplemental Information," BVY 11-013, dated February 10, 2011
 2. Letter, Entergy to USNRC, "License Renewal Application Supplemental Information," BVY 11-010, dated February 4, 2011
 3. Letter, Entergy to USNRC, "License Renewal Application Supplemental Information," BVY 10-058, dated December 21, 2010
 4. Letter, Entergy to USNRC, "License Renewal Application Supplemental Information," BVY 10-052, dated October 14, 2010