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Michael J Colomb  
Site Vice President

December 30, 2009

BVY 09-073

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

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

REFERENCES: 1. Letter, Entergy to USNRC, "Vermont Yankee Nuclear Power Station, License No. DPR-28, 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.

During the NRC review of the VYNPS LRA, Entergy is required by 10CFR54.21(b) to report changes to the current licensing basis (CLB) that materially affect the content of the VYNPS LRA, including the Safety Analysis Report (SAR) supplement. This information is required to be submitted annually and at least three months prior to the scheduled completion of the NRC review. In accordance with the requirements of 10 CFR 54.21(b), Entergy has completed a review and LRA impacts are discussed in Attachment 1 of this letter.

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

Should you have any questions or require additional information concerning this submittal, please contact Mr. David J. Mannai at 802-451-3304.

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

Executed on December 30, 2009

Sincerely,

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

[MJC/PLC]

A117  
NRR

Attachments: 1. License Renewal Application Annual Update Information

cc: Mr. Eric J. Leeds, Director  
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Mr. Robert Kuntz, Senior Project Manager  
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Mr. James S. Kim, Project Manager  
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USNRC Resident Inspector  
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Mr. David O'Brien, Commissioner  
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Attachment 1

Vermont Yankee Nuclear Power Station

License Renewal Application Annual Update Information

Vermont Yankee Nuclear Power Station  
License Renewal Application Annual Update Information

The review performed as part of the annual update identified the following impacts to the LRA.

(LRA changes shown with underline for additions and ~~striethrough~~ for deletions.)

LRA Notes for Table 3.5.2-1 through 3.5.2-6, Plant-specific notes, (Pg. 3.5-49) is revised to add the following.

505 Aging effects are not expected for fiberglass reinforced plastic (FRP). However, the identified AMP will be used to confirm the absence of significant aging effects for the period of extended operation.

LRA Table 3.3.2-13-18, House Heating Boiler System

An engineering change added a copper alloy valve to the house heating boiler system. The valve is exposed to a treated water environment. The aging management review results for this component are the same as the entries for tubing with the same material environment combination as shown in the same LRA table. Reference page 3.3-185 of the LRA. LRA Table 3.3.2-13-18 is revised as shown below.

<b>3.3.2-13-18: House Heating Boiler System</b>								
<b>Component Type</b>	<b>Intended Function</b>	<b>Material</b>	<b>Environment</b>	<b>Aging Effect Requiring Management</b>	<b>Aging Management Programs</b>	<b>NUREG-1801 Vol. 2 Item</b>	<b>Table 1 Item</b>	<b>Notes</b>
Valve body	Pressure boundary	Carbon steel	Air – indoor (ext)	Loss of material	System walkdown	VII.I-8 (A-77)	3.3.1-58	A
Valve body	Pressure boundary	Carbon steel	Condensation (ext)	Loss of material	System walkdown	VII.I-11 (A-81)	3.3.1-58	A
Valve body	Pressure boundary	Carbon steel	Steam > 220°F (int)	Loss of material	Flow accelerated corrosion	VIII.A-17 (S-15)	3.4.1-29	C
Valve body	Pressure boundary	Carbon steel	Steam > 220°F (int)	Loss of material	Water chemistry control – auxiliary systems			G, 305
Valve body	Pressure boundary	Carbon steel	Steam > 220°F (int)	Cracking – fatigue	Metal fatigue TLAA	VIII.B2-5 (S-08)	3.4.1-1	C
Valve body	Pressure boundary	Carbon steel	Treated water (int)	Loss of material	Water chemistry control – auxiliary systems	VII.C2-14 (A-25)	3.3.1-47	E, 305
<u>Valve body</u>	<u>Pressure boundary</u>	<u>Copper alloy &lt;15% Zn</u>	<u>Treated water (int)</u>	<u>Loss of material</u>	<u>Water chemistry control – auxiliary systems</u>	<u>VII.C2-4 (AP-12)</u>	<u>3.3.1-51</u>	<u>E, 305</u>
<u>Valve body</u>	<u>Pressure boundary</u>	<u>Copper alloy &lt;15% Zn</u>	<u>Air – indoor (ext)</u>	<u>None</u>	<u>None</u>	<u>V.F-3 (EP-10)</u>	<u>3.2.1-53</u>	<u>C</u>

#### LRA Section 3.5.2.1.4 - Process Facilities

An engineering change provided for the use of fiberglass reinforced plastic (FRP) to replace louvers in the cooling towers. FRP is a superior material that is not subject to the aging effects that impact wooden structural members.

(Pg 3.5-4) is revised as follows.

#### **Materials**

Process facilities components are constructed of the following materials.

- aluminum
- carbon steel
- concrete
- concrete block
- fiberglass reinforced plastic (FRP)
- PVC
- wood

LRA Table 3.5.2-6, Bulk Commodities, (Pg. 3.5-75) is revised to add the following.

<b>Table 3.5.2-6: Bulk Commodities</b>								
<b>Structure and/or Component/Commodity</b>	<b>Intended Function</b>	<b>Material</b>	<b>Environment</b>	<b>Aging Effect Requiring Management</b>	<b>Aging Management Program</b>	<b>NUREG 1801 Vol. 2 Item</b>	<b>Table 1 Item</b>	<b>Notes</b>
<u>Vents and louvers</u>	<u>SNS, SRE</u>	<u>Fiberglass reinforced plastic (FRP)</u>	<u>Exposed to weather</u>	<u>None</u>	<u>Structures Monitoring</u>			<u>J, 505</u>

505 Aging effects are not expected for fiberglass reinforced plastic (FRP). However, the identified AMP will be used to confirm the absence of significant aging effects for the period of extended operation.