



Entergy Nuclear Operations, Inc.

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February 4, 2008
BVY 08-05

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

- References:
- (a) Global Nuclear Fuel Report, 0000-0035-6536-SRLR, Revision 0, Supplemental Reload Licensing Report for Vermont Yankee Nuclear Power Station Reload 25/Cycle 26, March 2007.
 - (b) Global Nuclear Fuel Report, 0000-0035-6443-SRLR, Revision 0, Supplemental Reload Licensing Report for Vermont Yankee Nuclear Power Station Reload 24/Cycle 25 (with Extended Power Uprate), December 2005.
 - (c) Entergy Nuclear Northeast Letter, Ted A. Sullivan (Entergy) to USNRC, Vermont Yankee Nuclear Power Station 10CFR50.46(a)(3)(ii) Annual Report for 2006, BVY 07-006, January 17, 2007.

**Subject: Vermont Yankee Nuclear Power Station
License No. DPR-28 (Docket No. 50-271)
10CFR50.46(a)(3)(ii) Annual Report for 2007**

This letter is to report, in accordance with 10CFR50.46(a)(3)(ii), changes in peak cladding temperature (PCT) for the Vermont Yankee (VY) Emergency Core Cooling System (ECCS) Loss of Coolant Accident (LOCA) analysis. This annual report covers VY Cycles 25 and 26 from January 2007 to December 2007.

For Cycles 25 and 26, VY used the General Electric (GE) SAFER/GESTR methodology for the evaluation of the ECCS/LOCA. The results are summarized and reported in References (a), (b) and (c).

The licensing basis PCT, calculated for the GE14 fuel type VY currently has loaded in its core, including corrections through 2006, is documented in Reference (c).

In Cycle 26 VY loaded four GNF2 Lead Use Assemblies (LUAs) into the core. Since these assemblies were loaded as LUAs, the PCT change associated with these assemblies is not included in this annual report.

The following table updates the results to reflect subsequent changes to or errors identified in the methodology for the current VY fuel type. There were no new changes or error reports identified for VY fuel in 2007.

A002

NRB

Summary of 10CFR50.46 Changes/Errors for Vermont Yankee (2007)

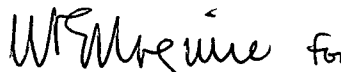
10CFR50.46 Change/Error Identification	10CFR50.46 Change/Error Description	Licensing Basis Delta PCT (degF) for GE14
None	N/A	N/A
	Total Delta PCT	0
	Previous Licensing Basis PCT from Reference (c)	1960
	Adjusted Licensing Basis PCT	1960

Since the PCT for the GE14 fuel type is well within the acceptance criterion of 10CFR50.46(b)(1), there is no need for re-analysis or other action per 10CFR50.46(a)(3)(ii).

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

If you have any questions concerning this submittal, please contact Mr. David J. Mannai at (802) 451-3304.

Sincerely,



Ted A. Sullivan
 Site Vice President
 Vermont Yankee Nuclear Power Station

cc: Mr. Samuel J. Collins, Region 1 Administrator
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Mr. David O'Brien, Commissioner
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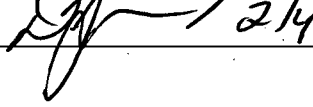
Section II Correspondence Screening

Does this letter contain commitments? If "yes," identify the commitments with due dates in the submittal and in Section III.	Yes No	<input type="checkbox"/> <input checked="" type="checkbox"/>
Does this letter contain any information or analyses of new safety issues performed at NRC request or to satisfy a regulatory requirement? If "yes," reflect requirement to update the UFSAR in Section III.	Yes No	<input type="checkbox"/> <input checked="" type="checkbox"/>
Does this letter require any document changes (e.g., procedures, DBDs, FSAR, TS Bases, etc.), if approved? If "yes," indicate in Section III an action for the responsible department to determine the affected documents. (The Correspondence Preparer may indicate the specific documents requiring revision, if known or may initiate an action for review.)	Yes No	<input type="checkbox"/> <input checked="" type="checkbox"/>
Does this letter contain information certified accurate? If "yes," identify the information and document certification in an attachment. (Attachment 9.5 may be used.)	Yes No	<input type="checkbox"/> <input checked="" type="checkbox"/>

Section III Action Items

Required Actions <i>Note: Actions needed upon approval should be captured in the appropriate action tracking system</i>	Due Date	Responsible Dept.
None		

Section IV Final Document Signoff for Submittal

Correspondence Preparer	J. Meyer  1/23/08
Final Submittal Review	W. Limberger  2/4/08
Responsible Department Head	D. Mannai  2/4/08