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Robert J. Wanczyk
Licensing Manager

BVY 12-003

January 6, 2012

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

SUBJECT: 10CFR50.46(a)(3)(ii) Annual Report for 2011
Vermont Yankee Nuclear Power Station
Docket No. 50-271
License No. DPR-28

- REFERENCES: (1) Global Nuclear Fuel Report, 0000-0100-8140-SRLR, Revision 3, Supplemental Reload Licensing Report for Vermont Yankee Nuclear Power Station Reload 27 Cycle 28, dated April 2011
- (2) Global Nuclear Fuel Report, 0000-0128-3575-SRLR, Revision 0, Supplemental Reload Licensing Report for Vermont Yankee Nuclear Power Station Reload 28 Cycle 29, dated August 2011
- (3) Letter, Entergy to USNRC, Vermont Yankee Nuclear Power Station 10CFR50.46(a)(3)(ii) Report, BVY 11-003, dated January 10, 2011

Dear Sir or Madam:

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 28 and 29 from January 2011 to December 2011.

For Cycles 28 and 29, VY used the General Electric (GE) SAFER/GESTR methodology for the evaluation of the ECCS/LOCA. The results are summarized and reported in References (1) and (2).

The licensing basis PCT, calculated for the GE14 and GNF2 fuel types VY currently has loaded in its core, including corrections through December 2010, is documented in Reference (3).

There were two error reports identified for VY fuel in 2011 as reported in the following table.

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STATE OF VERMONT
DEPT OF PUBLIC SERVICE
MONTPELIER, VT.
05620-2601

Summary of 10CFR50.46 Changes/Errors for Vermont Yankee (2011)

10CFR50.46 Change/Error Identification	10CFR50.46 Change/Error Description	Licensing Basis Delta PCT (degF) for:	
		GE14	GNF2
2011-02	Heat Deposition Parameter	+30	+30
2011-03	Heat Deposition Definition	+15	+15
Total Delta PCT		+45	+45
	Previous Licensing Basis PCT from Reference (3)	1960	2060
	Adjusted Licensing Basis PCT	2005	2105

Since the PCT for the GE14 and GNF2 fuel types are 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 with this submittal, please contact me at (802) 451-3166.

Sincerely,



[RJW/JTM]

cc: Mr. William M. Dean, Region 1 Administrator
U.S. Nuclear Regulatory Commission
475 Allendale Road
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Mr. James S. Kim, Project Manager
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USNRC Resident Inspector
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Ms. Elizabeth Miller, Commissioner
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