



Entergy Nuclear Operations, Inc.  
Vermont Yankee  
320 Governor Hunt Road  
Vernon, VT 05354  
Tel: (802) 257-7711

**Coley C. Chappell**  
Licensing Manager

BVY 14-003

January 8, 2014

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

SUBJECT: 10CFR50.46(a)(3)(ii) Annual Report for 2013  
Vermont Yankee Nuclear Power Station  
Docket No. 50-271  
License No. DPR-28

REFERENCES: (1) Global Nuclear Fuel Report, 0000-0146-9245-SRLR, Revision 0,  
Supplemental Reload Licensing Report for Vermont Yankee  
Nuclear Power Station Reload 29 Cycle 30, dated December 2012  
  
(2) Letter, Entergy to USNRC, Vermont Yankee Nuclear Power  
Station 10CFR50.46(a)(3)(ii) Report, BVY 13-002, dated January  
14, 2013

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 Cycle 29 and Cycle 30 from January 1, 2013 to December 31, 2013.

For Cycle 29 and Cycle 30, VY used the General Electric (GE) SAFER/GESTR methodology for the evaluation of the ECCS/LOCA. The results are summarized and reported in Reference (1).

The licensing basis PCT, calculated for the GE14 and GNF2 fuel types VY currently has loaded in its core, including corrections through December 2012, is documented in Reference (2).

No error notifications were identified for VY fuel in 2013 and consequently there were no changes to the licensing basis PCT with respect to Reference (2).

A002  
NRR

**Summary of 10CFR50.46 Changes/Errors for Vermont Yankee (2013)**

10CFR50.46 Change/Error Identification	10CFR50.46 Change/Error Description	Licensing Basis Delta PCT (degF) for:	
		GE14	GNF2
None	N/A	N/A	N/A
Total Delta PCT		+0	+0
	Previous Licensing Basis PCT from Reference (2)	2040	2140
	Adjusted Licensing Basis PCT	2040	2140

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) 451-3374.

Sincerely,



[CCC/JTM]

cc: Mr. William M. Dean, Region 1 Administrator  
U.S. Nuclear Regulatory Commission  
2100 Renaissance Blvd., Suite 100  
King of Prussia, PA 19406-2713

Mr. Douglas Pickett, Project Manager  
Office of Nuclear Reactor Regulation  
OWFN – Mail Stop O8G9A  
11555 Rockville Pike  
Rockville, MD 20852

USNRC Resident Inspector  
Vermont Yankee Nuclear Power Station

Mr. Christopher Recchia, Commissioner  
Vermont Department of Public Service  
112 State Street, Drawer 20  
Montpelier, VT 05620-2601