



Entergy Nuclear Vermont Yankee, LLC
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BVY 03-111

U. S. Nuclear Regulatory Commission
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- References:
- (a) GE Report, 0000-0006-1823-SRLR, Rev. 0, Supplemental Reload Licensing Report for Vermont Yankee Nuclear Power Station, Reload 22/Cycle 23, October 2002.
 - (b) Letter, S.A. Richards (USNRC) to J.F. Klapproth (GE), Review of NEDE-23785P, Volume III, Supplement 1, Revision 1, "GESTR-LOCA and SAFER Models for Evaluation of Loss of Coolant Accident, Volume III, Supplement 1, Additional Information for Upper Bound PCT Calculation," February 2002.
 - (c) Letter, BVY 02-99, Vermont Yankee Nuclear Power Station, License No. DPR-28 (Docket No. 50-271), 10CFR50.46(a)(3)(ii) Annual Report for 2002, December 17, 2002.

Subject: Vermont Yankee Nuclear Power Station
License No. DPR-28 (Docket No. 50-271)
10CFR50.46(a)(3)(ii) Annual Report for 2003

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's Cycle 23, from January 2003 to December 2003.

For Cycle 23, VY used the General Electric (GE) SAFER/GESTR methodology for the evaluation of the ECCS/LOCA. The results of the analysis are summarized in Reference (a). The GE methodology has been approved by the NRC in Reference (b). The Licensing Basis PCT calculated for the three fuel types, including the 10CFR50.46 corrections for 2002, was reported in an earlier letter [Reference (c)].

The following table updates the data from Reference (c) and provides the annual summary of GE reported changes or errors identified in the methodology for all VY fuel types for 2003.

ADD

Summary of 10CFR50.46 Errors for Vermont Yankee (2003)

10 CFR 50.46 Error Identification	10CFR 50.46 Error Description	Licensing Basis Δ PCT ($^{\circ}$ F)		
		GE-14	GE-13	GE-9NB
2003-01	Error in the SAFER reactor pressure vessel level/volume calculation.	+5	-5	-5
2003-03	Error in the SAFER moisture separator Δ P calculation.	0	0	0
2003-04	(1) Error in SAFER input for jet pump mixing length and MSIV closure time.*	N/A	N/A	N/A
	(2) Error in recirculation pump coast down time constant.	+5	+5	+5
Total Δ PCT ($^{\circ}$ F)		+10	0	0
Previous Licensing Basis PCT [from Reference (c)]		1950 $^{\circ}$ F	1858 $^{\circ}$ F	1738 $^{\circ}$ F
Adjusted Licensing Basis PCT		1960 $^{\circ}$ F	1858 $^{\circ}$ F	1738 $^{\circ}$ F


* Error 2003-04 (1) is only applicable to GE-13 MELLLA results and is not applicable to the current licensing basis.

Note: 10CFR50.46 Error Notification 2003-02 was not applicable to Vermont Yankee.

Since the PCT for GE-14, GE-13 and GE-9 fuel types are well within the acceptance criterion of 50.46(b)(1), there is no need for reanalysis or other action per 50.46(a)(3)(ii). All other 50.46(b) criteria are met for these fuel types as well.

If you have any questions concerning this report, please contact Mr. Jeff Meyer at (802) 258-4105.

Sincerely,


 James M. DeVincentis
 Manager, Licensing

cc: USNRC Region 1 Administrator
 USNRC Resident Inspector - VYNPS
 USNRC Project Manager - VYNPS
 Vermont Department of Public Service

SUMMARY OF VERMONT YANKEE COMMITMENTS

BVY NO.: 03-111

The following table identifies commitments made in this document by Vermont Yankee. Any other actions discussed in the submittal represent intended or planned actions by Vermont Yankee. They are described to the NRC for the NRC's information and are not regulatory commitments. Please notify the Licensing Manager of any questions regarding this document or any associated commitments.

[illegible]