



Entergy Operations, Inc.  
River Bend Station  
Post Office Box 220  
5485 US Hwy. 61  
St. Francisville, LA 70775

October 9, 2003

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Subject: River Bend Station - Unit 1  
Docket No. 50-458  
License No. NPF-47  
10 CFR 50.46 (a)(3)(ii) Report

File No. G9.5

RBG-46174  
RBF1-03-0173

Ladies and Gentlemen:

In accordance with 10 CFR 50.46 (a)(3)(ii), River Bend Station (RBS) is required to report changes to or errors discovered in acceptable ECCS evaluation models on an annual basis. RBS is obligated to report the nature of the change or error and its estimated effect on calculated Peak Clad Temperature (PCT).

General Electric/Global Nuclear Fuel (GE/GNF) has issued 2 Notification Letters (NL-2003-01, 03) to River Bend Station (RBS) on the impact of errors/changes in the SAFER methodology used by GE/GNF to demonstrate compliance with the requirements of 10CFR50.46 during the past year. The Cycle 12 core at RBS consists of mixed GE11 and ATRIUM-10 fuel bundles. Only the PCT for the GE11 fuel calculated based upon the GE methodology is affected by the aforementioned notices. The PCT error associated with the ATRIUM-10 methodology is reported separately by Framatome ANP (FANP). A summary of these notifications follows:

ADD 1



Notification	Nature of change	Estimated PCT Effect	
		GENE	FANP
GE/GNF NL2003-01	Process for constructing the initial level/volume table resulted in an incorrect total volume in the vessel.	5	--
GE/GNF NL2003-03	Incorrect loss coefficient resulted in a higher initial steam separator pressure drop and overly restricted the flow through the separator during the LOCA event.	0	--
FANP PCT Error Report	Incorrect calculation of junction inertia for recirculation pump discharge break junctions	--	0
Sum of absolute magnitude of errors during this period		5	0
Cumulative sum of absolute magnitude of errors prior to this period		20	0
Cumulative sum of absolute magnitude of errors including this period		25	0

The LOCA analysis results continue to meet the acceptance criteria of 10CFR50.46(b)(1) that the PCT shall not exceed 2200 deg F. No reanalysis is required per 10CFR50.46(a)(3)(ii) and the errors are not considered a significant change.

In summary, the LOCA analysis results for PCT continue to meet the acceptance criteria and there is no safety concern.

For further information, contact Mr. B. M. Burmeister at (225) 381-4148.

Sincerely,



J. W. Leavines  
Manager - Site Licensing

JWL/BMB

cc: U. S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011



10 CFR 50.46 (a)(3)(ii) Report  
RBG-46174  
RBF1-03-0173  
Page 3 of 3

NRC Sr. Resident Inspector  
P. O. Box 1050  
St. Francisville, LA 70775

INPO Records Center  
700 Galleria Parkway  
Atlanta, GA 30339-3064

Mr. Jim Calloway  
Public Utility Commission of Texas  
1701 N. Congress Avenue  
Austin, TX 78711-3326

Louisiana Department of Environmental Quality  
Radiation Protection Division  
P. O. Box 82135  
Baton Rouge, LA 70884-2135  
ATTN: Administrator