



Entergy Operations, Inc.  
Waterloo Road  
P.O. Box 756  
Port Gibson, MS 39150  
Tel 601 437 6470

**Jerry C. Roberts**  
Director  
Nuclear Safety Assurance

November 7, 2001

U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Document Control Desk

Subject: Report of Change and Error to 10 CFR 50.46 Evaluation  
Model  
Grand Gulf Nuclear Station  
Docket No. 50-416  
License No. NPF-29

GNRO-2001/00086

Ladies & Gentlemen:

In accordance with 10CFR50.46 (a)(3)(ii), Grand Gulf Nuclear Station (GGNS) is required to report to the Commission at least annually, the estimated effect on the limiting Emergency Core Cooling System (ECCS) analysis caused by changes to or errors discovered in acceptable ECCS evaluations. The purpose of this letter is to report a change and an error associated with the limiting GGNS ECCS evaluation, which was performed by General Electric Nuclear Energy (GENE) using their NRC approved SAFER/GESTR methodology.

GENE made a change to their SAFER code to address a numerical convergence question resulting from a BWROG audit of their LOCA methodology. Specifically, GENE changed the step size used in the plant-specific calculations. The impact of this change on the limiting GGNS ECCS analysis was determined to be a decrease in the licensing basis Peak Clad Temperature (PCT) of 5°F.

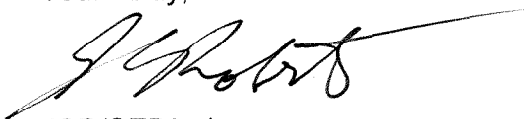
GENE also identified a condition that could cause an error in the SAFER calculated pressure. This error may result in reduced flashing and the premature termination of ECCS condensation due to insufficient steam mass. The impact of this error on the limiting GGNS ECCS analysis was determined to be an increase in the licensing basis PCT of 5°F.

November 7, 2001  
GNRO-2001/00086  
Page 2 of 2

Therefore, there is no overall effect on the GGNS limiting PCT as a result of the identified change and error and the current limiting PCT of <1830°F remains well below the 2200°F acceptance criterion of 10 CFR 50.46.

This letter does not contain any commitments. Should you have any questions or require additional information, please contact this office.

Yours truly,



JCR/CEB/ceb

attachment:

LICENSEE-IDENTIFIED COMMITMENTS

cc:

Hoeg	T. L.	(GGNS Senior Resident)	(w/a)
Levanway	D. E.	(Wise Carter)	(w/a)
Reynolds	N. S.		(w/a)
Smith	L. J.	(Wise Carter)	(w/a)
Thomas	H. L.		(w/o)

Mr. E. W. Merschoff (w/2)  
Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive,  
Suite 400 Arlington, TX 76011

Mr. S. P. Sekerak, NRR/DLPM/PD IV-1 (w/2)  
**ATTN: ADDRESSEE ONLY**  
U.S. Nuclear Regulatory Commission  
One White Flint North, Mail Stop O7-D1  
11555 Rockville Pike  
Rockville, MD 20852-2378