



Entergy Operations, Inc.
P.O. Box 756
Port Gibson, Mississippi 39150
Tel: 601-437-2800

Christina L Perino
Licensing Manager

GNRO-2011/00102

November 29, 2011

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

SUBJECT: Report of Changes and Errors to 10CFR50.46
Grand Gulf Nuclear Station, Unit 1
Docket No. 50-416
License No. NPF-29

REFERENCES: 1. Letter GNRO-2010/00069, "Report of Changes and Errors to 10CFR50.46," dated November 15, 2010.

2. Letter GNRI-2008-00083, "GRAND GULF NUCLEAR STATION, UNIT 1 – ISSUANCE OF AMENDMENT RE: CHANGES TO TECHNICAL SPECIFICATION 5.6.5, CORE OPERATING LIMITS REPORT (TAC NO. MD7493)," dated October 16, 2008.

Dear Sir or Madam:

In accordance with 10CFR50.46 (a)(3)(ii), Grand Gulf Nuclear Station, Unit 1 (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 for information.

Since the last 10CFR50.46 report dated November 15, 2010 [see reference 1], two notices of changes or errors associated with the current GGNS ECCS analysis have been identified. The table below summarizes these changes or errors and the effect on the current ECCS analysis performed by General Electric-Hitachi Nuclear Energy (GEH) using their NRC approved SAFER/GESTR-LOCA methodology.

Notification	Nature of Change	Estimated PCT Effect (Δ PCT)		
		AT10	GE14	GNF2
NL-2011-02	Impact of database error for heat deposition on the Peak Cladding Temperature (PCT) for 10x10 fuel bundles.	+15	+15	+15
NL-2011-02	Impact of updated formulation for gamma heat deposition to channel wall for 9x9 and 10x10 fuel bundles.	+20	+20	+20
Sum of absolute magnitude of errors during this period		+35	+35	+35
Cumulative sum of absolute magnitude of errors prior to this period		0	0	0
Cumulative sum of absolute magnitude of errors including this period		+35	+35	+35

The overall impact to the GGNS licensing basis PCT as a result of the errors and changes listed above is an increase of 35°F. As such, the licensing basis PCT of the limiting ATRIUM-10 (AT10) fuel type reported in reference 2 increased from <1880 °F to <1915 °F, which remains well below the 2200 °F acceptance criterion of 10CFR50.46.

This letter does not contain any commitments. Should you have any questions or require additional information, please contact Cassandre Justiss at 601-437-6685.

Sincerely,

 *ALTERN FOR C. PERSANO*

CLP/CJ

cc: Mr. Elmo E. Collins, Jr.
Regional Administrator, Region IV
U. S. Nuclear Regulatory Commission
612 East Lamar Blvd., Suite 400
Arlington, TX 76011-4125

U. S. Nuclear Regulatory Commission
ATTN: Mr. A. Wang, NRR/DORL
Mail Stop OWFN/8 G14
11555 Rockville Pike
Rockville, MD 20852-2378

NRC Senior Resident Inspector
Grand Gulf Nuclear Station
Port Gibson, MS 39150