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GNRO-2004/00063

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

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

Ladies and Gentlemen:

In accordance with 10 CFR 50.46 (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 associated with the limiting GGNS ECCS analysis that has been identified since the last 10 CFR 50.46 report. The impacted analysis was performed by General Electric Nuclear Energy (GENE) using their NRC approved SAFER/GESTR methodology.

This change involves consideration of an additional heat source not previously considered that results from the recombination of hydrogen and oxygen in the reactor vessel following a LOCA. GENE determined that this error resulted in an increase of 5°F to the GGNS licensing basis peak clad temperature (PCT).

In addition, GGNS is providing the information in a new format. The new format is based on feedback from the NRC.

Notification	Nature of change	Estimated PCT Effect	
		GENE	FANP
GE/GNF NL2003-05	An additional heat source in the reactor vessel following a LOCA.	5	-
Sum of absolute magnitude of errors during this period		5	-
Cumulative sum of absolute magnitude of errors prior to this period		30	8
Cumulative sum of absolute magnitude of errors including this period		35	8

Therefore, the overall impact to the GGNS licensing basis PCT as a result of the errors and change listed above is an increase of 5°F. As such, the GGNS licensing basis PCT changes from <1850°F to <1855°F, which 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,



CAB/WBA

cc: NRC Senior Resident Inspector  
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