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Manager
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October 20, 2003

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

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

GNRO-2003/00057

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) analyses caused by changes to or errors discovered in acceptable ECCS evaluations. The purpose of this letter is to report two errors associated with the GGNS ECCS analyses that have been identified since the last 10CFR50.46 report dated October 31, 2002 (GNRO 2002/00093). The impacted analyses were performed by General Electric Nuclear Energy (GENE) using their NRC approved SAFER/GESTR methodology.

The first error resulted in an incorrect volume split in the nodes above and below the Reactor Pressure Vessel (RPV) water surface and incorrect initial liquid mass. The total volume of the vessel was correct. GENE determined that this error resulted in an increase of 5 °F to the GGNS licensing basis peak clad temperature (PCT).

The second error resulted in a higher initial steam separator pressure drop and overly restricted the flow through the separator during the LOCA event. GENE determined that there was no impact to the GGNS licensing basis PCT as a result of this error.

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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 <1845°F to <1850°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 this office.

Yours truly,



CAB/GWI/gwi

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) |

U.S. Nuclear Regulatory Commission
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U.S. Nuclear Regulatory Commission
ATTN: Mr. Bhalchandra Vaidya NRR/DLPM
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Attachment 1

LICENSEE-IDENTIFIED COMMITMENTS

| Letter #: | GNRO-2003/00057 | | | |
|-------------------|---|----------------------------------|--|--|
| COMMITMENT | TYPE <small>(Check only one type)</small> | | SCHEDULED COMPLETION DATE <small>(If Required)</small> | |
| | ONE- TIME ACTION | CONTINUING COMPLIANCE | | |
| None | N/A | N/A | N/A | |