



ENTERGY

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February 14, 1994

U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

Attention: Document Control Desk

Subject: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-29
Special Report 94-001
Invalid Failure of Standby Diesel Generator 12 Due to False High
Jacket Water Temperature Signal

GNRO-94/00024

Gentlemen:

Division 2 Standby Diesel Generator (SDG 12) experienced an invalid failure during surveillance on January 13, 1994. SDG 12 was started in accordance with plant operating instructions and reached rated speed and voltage. However, automatic shutdown occurred as a result of a Group 2 trip signal approximately thirty minutes into the run.

Investigation revealed that the trip occurred due to a spurious high jacket water temperature signal that was generated by a faulty jacket water temperature switch (1P75N162B). The switch vented pressure from the pneumatic trip system at temperatures below its normal trip setpoint of 200 ± 3 degrees F. Bench testing determined that the switch tripped at approximately 154 degrees F. The switch was replaced and tested.

A previous failure of SDG 12 occurred on May 21, 1993 due to the same condition. Corrective actions performed at that time have not been determined to have contributed to this event. Investigation of this event is continuing to assess the need for additional corrective actions. Corrective actions will be developed based on investigation findings.

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The SDG trip is attributed to the malfunction of equipment that is not operative in the emergency operating mode. Therefore, this occurrence is considered an invalid failure of the SDG unit. There have been no valid failures of SDG 12 in its last 100 tests. SDG 12 was retested satisfactorily at 19:39 on January 14, 1994. SDG 12 was unavailable for 22.2 hours.

Yours truly,



CRH/MJM/LFD/BAB/

cc: Mr. R. H. Bernhard
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