



**ENTERGY**

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July 23, 1992

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 92-004  
Invalid Failure of Emergency Diesel Generator 11 Due to High  
Vibration Signal

GNRO-92/00097

Gentlemen:

On June 23, 1992, the Division I Diesel Generator (SDG 11) was started for the performance of the functional test in accordance with Technical Specification 4.8.1.2. Approximately one minute following the start and prior to a load attempt, SDG 11 tripped on a high vibration signal. SDG 11 was declared inoperable due to the condition. An investigation was performed to determine the cause of the diesel failure.

The investigation revealed a screw which secures the control air connection port and reset air connection port on vibration switch 1P75N164A was loose. No additional abnormal conditions were observed. A bench test revealed that, with the screw loose and some amount of vibration, the supply air leaks at a rate which results in an engine trip. The vibration switch was replaced and retested satisfactorily.

The cause of the loose screw is attributed to an inadequate procedure. The procedure is deficient in that it does not identify the need to ensure the vibration switch securing screw is tightened following maintenance on these switches.

The maintenance procedure which governs the calibration of these vibration sensors will be revised to address identified concerns with the vibration switch securing screw.

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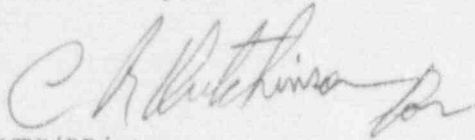
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The occurrence was caused by spurious operation of a trip that is bypassed during the emergency operating mode of the SDG. Therefore, this is considered an invalid failure of the SDG unit.

Yours truly,



WTC/RR/mtc

cc:

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