

## MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi



December 21, 1981

U.S. Nuclear Regulatory Commission Office of Nuclear Reactor Regulation Washington, D.C. 20555

Attention: Mr. Harold R. Denton, Director

Dear Mr. Denton:

SUBJECT: Grand Gulf Nuclear Station Units 1 and 2 Docket Nos. 50-416 and 50-417 File 0260/8240/M-611.0 Fuel Pool Cooling and Cleanup Pump Room Ventilation AECM-81/493

In response to the NRC Question 010.25 (FSAR subsection 9.4.5), Mississippi Power & Light (MP&L) advised the NRC that the Fuel Pool Cooling & Cleanup (FPCC) pump room would be provided with a safety grade backup ventilation and cooling system. A description of the intended design changes was provided in revised FSAR subsection 9.4.5 (FSAR Amendment 49, July, 1981). Due to the non-availability of qualified equipment, however, the implementation of this change has been delayed and will not be in place ig the predicted fuel load date for GGNS Unit 1, February, 1982. This design change will be completed by the first regularly scheduled refueling outage.

During normal operations supply air to the FPCC pump room is provided by auxiliary building ventilation, a non-Emergency Safeguard Feature (ESF) system. Failure or non-availability of the auxiliary building ventilation system could result in a loss of cooling to the FPCC pump room. It is for this reason that a fully safety grade backup ventilation system is being provided. However, there normally will be no spent fuel stored in the pools serviced by the FPCC system until the first refueling outage. Furthermore, the FPCC pumps perform no safety function until there is spent fuel stored in the pools. Thus, the loss of FPCC pumps prior to the first refueling outage would have no adverse effect on plant safety.

In event of the requirement to off-load fuel to one of these pools before the first outage; i.e., before the installation of a backup FPCC pump room cooling system, the Residual Hcat Removal (RHR) system can be utilized to remove decay heat from the pool. The RHR system, in its fuel pool cooling assist mode, is designed to assure adequate fuel pool cooling regardless of the availability of the FPCC system. As required in FSAR subsection 9.1.3.3, the reactor must remain shutdown while portions of the RHR system is being used in this mode. 800



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In summary, normal ventilation and cooling is available to the pump room, except during the non-availability or failure of auxiliary building ventilation. Safety grade, backup pump room cooling would only be required if spent fuel were stored in one of the pools serviced by the FPCC system. No spent fuel should be off-loaded from the reactor until the first refueling outage. However, should spent fuel be off loaded, the RHR system is designed to provide backup cooling services as well as meet its other design requirements. The backup FPCC pump room ventilation modification will be completed prior to the first regularly scheduled refueling outage.

FSAR subsection 9.4.5 will be revised to reflect the delay in this design change. If further clarification is required, please advise.

Yours truly, any appendante in

L. F. Dale Manager of Nuclear Services

JGC/JDR:n11

cc: Mr. N. L. Stampley Mr. G. B. Taylor Mr. R. B. McGehee Mr. T. B. Conner

> Mr. Richard C. DeYoung, Director Office of Inspection & Enforcement U. S. Nuclear Regulatory Commission Washington, D.C. 20555