



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

November 22, 1985

Docket No.: 50-416

Mr. Jackson B. Richard  
Senior Vice President  
Mississippi Power and Light Company  
P.O. Box 23054  
Jackson, Mississippi 39205

Dear Mr. Richard:

Subject: Grand Gulf Unit 1 - Low Pressure Emergency Core Cooling  
System (ECCS) Pressure Permissive Interlocks

By letter dated August 12, 1985, Mississippi Power and Light Company requested an amendment to the Grand Gulf Nuclear Station, Unit 1 operating license in order to implement a design change which would add pressure permissive interlocks to the control circuits for low pressure ECCS injection valves. This change is required by License Condition 2.C.(18) to be implemented prior to startup following the first refueling. Technical Specification changes proposed to implement this design change were proposed in Item 13 of the Attachment to the August 12, 1985, letter.

During its review of the proposed Technical Specification changes, the NRC staff requested additional information regarding the pressure interlocks. The licensee provided some of the requested information, including a revised ECCS performance analysis (by letter dated October 22, 1985), a description of the logic incorporated in the pressure permissive interlocks and a piping and instrument diagram (by letter dated October 5, 1985), and a proposed surveillance requirement on ECCS valve opening time (by letter dated September 25, 1985). However, the licensee declined to provide additional information regarding: (1) the addition of interlocks to the valve control circuits in the remote shutdown panel or alternate means to minimize the potential for inadvertent overpressurization of the low design pressure systems, and (2) changing the interlock pressure setpoints to values below the ECCS piping design pressure.

The purpose of this letter is to request additional information and to provide the NRC staff's safety evaluation and position regarding interlocks for ECCS valve controls on remote shutdown panels and the pressure setpoint for interlocks on low design pressure ECCS piping. The staff's safety evaluation and positions, including acceptable alternatives to interlocks on the remote shutdown panel, is enclosed. The staff concludes that the proposed Technical Specification change in Item 13 of the licensee's August 12, 1985, letter, as supplemented by letters dated September 25, October 5, and October 22, 1985, is unacceptable because it does not meet the NRC staff position regarding pressure

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Certified By

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November 22, 1985

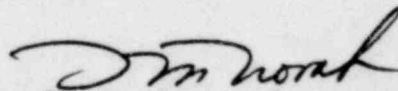
Mr. Jackson B. Richard

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permissive interlocks for the remote shutdown panel control circuits (Standard Review Plan Section 7.4.III), and because the proposed setpoints for pressure interlocks do not meet the staff position requiring interlock setpoints to be below the ECCS piping design pressure (Grand Gulf Nuclear Station Safety Evaluation Supplement 2, Section 6.3.4, NUREG-0831).

You are requested to revise Item 13 of the August 12, 1985, submittal to respond to the enclosed staff positions. Based on its preliminary review, the NRC staff issued a notice in the Federal Register of its intent to amend the operating license in the manner proposed in the August 12, 1985, submittal. The staff will reissue the notice in this matter due to the need for substantive changes resulting from its safety evaluation. In order to include the response to this letter in the new notice, you should submit your response within 30 days of receipt of this letter. Your response should include an analysis of significant hazards conditions for any revised proposal pursuant to Section 50.91 (a) of 10 CFR 50. In the absence of an acceptable response to this letter, the staff intends to deny the request for license amendment in Item 13 of the August 12, 1985, letter.

Sincerely,



Thomas Novak, Assistant Director  
for Licensing  
Division of Licensing

Enclosure:  
As stated

cc: See next page

Mr. Jackson B. Richard  
Mississippi Power & Light Company

Grand Gulf Nuclear Station

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Sincerely,

Original signed by:  
Thomas M. Novak

Thomas Novak, Assistant Director  
for Licensing  
Division of Licensing

Enclosure:  
As stated

cc: See next page

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