MISSISSIPPI POWER & LIGHT COMPANY
Helping Build Mississippi
P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

NUCLEAR PRODUCTION DEPARTMENT

April 1, 1982

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: 0260/6480/M-001.0
Justification for Interim Operation With Non-1E Pressure Switch for Fuel Pool Cooling and Cleanup Pumps
AECM-82/105

Mississippi Power & Light Company (MP&L) is providing the following justifications for interim operation with non-1E pressure switches on fuel pool cooling and cleanup pumps (G41-C001A&B). The purpose of the switches (G41-N033A&B) is to protect the fuel pool pumps from running against shutoff head. The switches are classified as safety related components, however, qualified switches cannot be delivered prior to fuel load. The use of non-qualified temporary switches is justified for an interim period on the basis of the following:

- The switch performs no safety function. (It is classified safety related because the pump protected by the switch is classified as having "manual" safety function - no automatic safety function).
- The switch is provided for operator convenience, and the General Electric standard design does not include this feature.
- Should the switch fail, no adverse consequences would result since an operator error is also required, resulting in the closure of the pump's downstream discharge valve. The fuel pool pump is manual start/stop, and controlled from a local panel. To prevent the pump from running against shutoff head, there are other instruments and indicators provided nearby for an operator to take appropriate action in accordance with the prescribed procedure.
- There are two 100% capacity pumps, and one of the pumps may be used as a spare.
- The fuel pool pump is required only when spent fuel is stored in the pool. Should both pumps fail with fuel in the pool, the Grand Gulf design includes other means to cool the fuel pool water, namely the RHR system. (See FSAR subsection 9.13.3.)

B001
S.1.0

MP&L considers the above information sufficient to justify the use of non-1E pressure switches on fuel pool cooling and cleanup pumps on an interim basis. The qualified switches will be installed prior to startup from the first regularly scheduled refueling outage. Please advise if further information is required.

Yours truly,

L. F. Dale
Manager of Nuclear Services

JHS/JGC/JDR:rg

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