



# MISSISSIPPI POWER & LIGHT COMPANY

*Helping Build Mississippi*

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. McGAUGHY, JR.  
ASSISTANT VICE PRESIDENT

83 MAR 7 AIO: 59  
February 24, 1983

Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, N.W.  
Suite 3100  
Atlanta, Georgia 30303

Attention: Mr. J. P. O'Reilly, Regional Administrator

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station  
Units 1 and 2  
License No. NPF-13  
Docket Nos. 50-416/417  
File 0260/15525/15526  
PRD-82/34, Interim Report # 3,  
HFA Relay Contact Settings  
AECM-83/0117

Reference: 1. AECM-82/372, 9/1/82  
2. AECM-82/544, 11/12/82

On August 2, 1982, Mississippi Power & Light Company notified Mr. R. Butcher, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns the incorrect "wipe" setting of normally closed contacts which had been converted from normally open contacts on some HFA relays.

We have determined that this deficiency is reportable under the provisions of 10CFR21 for Unit 1 and under the provision of 10CFR50.55(e) for Unit 2. A determination as to the applicability of 10CFR21 for Unit 2 has not been made at this time.

Our Interim Report is attached. A Final Report is expected to be submitted prior to nuclear heatup.

Yours truly,

*J. P. McGaughy, Jr.*  
For J. P. McGaughy, Jr.

ATR:dr  
ATTACHMENT

cc: See page 2

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Member Middle South Utilities System

Mr. J. P. O'Reilly  
NRC

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cc: Mr. N. L. Stampley  
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

Mr. G. B. Taylor  
South Miss. Electric Power Association  
P. O. Box 1589  
Hattiesburg, MS 39401

INTERIM REPORT #3 FOR PRD-82/34

1. Name and address of the individual informing the commission:

J. P. McGaughy, Jr.  
Assistant Vice-President, Nuclear Production  
P.O. Box 1640  
Jackson, Mississippi 39205

Notification of Part 21 applicability made to Mr. J. P. Reilly, NRC, Region II, by telephone on August 31, 1982. This deficiency was also reported under 10CFR21 by General Electric to the NRC in their letter dated July 27, 1982.

2. Identification of the facility which contains a deficiency:

Grand Gulf Nuclear Station (GGNS) Units 1 and 2  
Port Gibson, Mississippi 39150  
NOTE: 10CFR21 applies only to Unit 1

3. Identification of the firm supplying the basic component which contains a deficiency:

Supplied to Grand Gulf by General Electric Company, San Jose, California.

We are currently investigating whether any defective relays were supplied by the Bechtel Power Corporation, Gaithersburg, Maryland.

4. Nature of the deficiency and the safety hazard which could be created by such a deficiency:

A. Description of the Deficiency

The deficiency concerns the incorrect "wipe" setting of normally closed (NC) contacts on some HFA relays which had been converted from normally open (NO) contacts. Seismic qualification was performed by General Electric with correct contact "wipe" settings; therefore, a relay with less than a minimum wipe setting does not fall within the component qualification limits.

B. Analysis of Safety Implications

The potential exists for a NC contact in the HFA relay to fail to properly activate engineered safety systems during a seismic event.

The failure of NC contacts to trip the reactor recirculation pumps, per design, due to a turbine stop valve closure or a turbine control valve fast closure, might create thermal transients which may lead to fuel cladding failure.

5. The date on which the information of such deficiency was obtained.

Mississippi Power and Light received information of the deficiency on July 30, 1982. We reported the deficiency to Mr. R. Butcher, of your office, as a Potentially Reportable Deficiency for Unit 2 on that date and stated that an evaluation would be performed to determine applicability of Part 21 for Unit 1. An evaluation for Part 21 has been completed and the MP&L "Responsible Officer," Mr. J. P. McGaughy, Jr., has been notified. This deficiency is also applicable to Unit 2 under the provisions of 10CFR50.55(e), however a determination as to the applicability of 10CFR21 for Unit 2 has not been made.

6. In the case of the basic component the number and location of all such components.

The relays are located at the Grand Gulf Nuclear Station, Units 1 and 2. Locations of other plants which may have defective relays were given by General Electric in their July 27, 1982 letter to the NRC.

7. The corrective action which has been taken; the name of the individual responsible for the action; and the length of time that has been taken to complete the action.

A. Corrective Actions Taken

General Electric issued FDI-WAVA for problem identification and correction in the NSSS scope of supply for Unit 1 and FDI-WBSH for the NSSS scope of supply for Unit 2. MP&L has, at this time, inspected and corrected 18 of the 24 relays identified by General Electric in FDI-WAVA. DCP-82/3122 has been issued to inspect the remaining 6 relays prior to nuclear heatup. All corrective actions are expected to be completed prior to exceeding 5% reactor power.

For the BOP scope of supply, an investigation is currently underway to identify any relays with a similar defect. This will be completed prior to exceeding 5% power. MP&L is performing the investigation for Unit 1. Our Architect/Engineer has issued Quality Action Request (QAR) 354 for Unit 2 to separate this issue from others contained in QAR F-352. Note: Our interim report #2 previously identified QAR 352 as the tracking document for Unit 2.

B. Responsible Individual

Unit 1	Unit 2
C. K. McCoy	T. H. Cloninger
Plant Manager	Unit 2 Project Manager
Mississippi Power & Light Co.	Mississippi Power & Light Co.

C. Length of Time to Complete Actions

Due to the operational condition of Unit 1 and the requirement to maintain systems in an operational condition, it has not been feasible to complete all the required inspections at this time. MP&L plans to inspect these systems as they become available within the operating parameters of the plant. It is expected that all the required inspections will be completed prior to nuclear heatup with all necessary corrective actions completed prior to exceeding 5% power.

A projected completion date for Unit 2 is not available at this time due to the limited ongoing construction effort.

8. Any advice related to the deficiency ... that has been, is being, or will be given to purchasers or licensees:

As the deficiency did not originate with MP&L, we have no advice to offer.