



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. McGAUGHY, JR.  
ASSISTANT VICE PRESIDENT

October 28, 1980

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, Director

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station  
Units 1 and 2  
Docket Nos. 50-416/417  
File 0260/15525/15526  
PRD-80/38, Status Report #2,  
Electro Switch Malfunctions  
AECM-80/267

Reference: AECM-80/172, 7/30/80

On July 2, 1980, Mississippi Power & Light Company notified Mr. F. Cantrell of your office of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns contact and indication malfunctions of Electro Switches, Series 20, Type PR-20.

We expect to conclude our investigation and determine reportability of this matter under 10CFR50.55(e) and 10CFR21 by February 19, 1981. Details of this investigation are discussed in the attached status report.

Yours truly,

for J. P. McGaughy, Jr.

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WDH:mt  
Attachment

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

Mr. Victor Stello, Director  
Division of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

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STATUS REPORT #2 FOR PRD-80/38

I. Description

- a. Electro Switches, Series 20, Type PR-20, supplied by General Electric, showed contact and indication malfunctions during system testing. The malfunction is when the switch is turned to the STOP position and released quickly, the internal contact arrangement is such that the AUTO from START position contacts close rather than the AUTO from STOP position contacts. A similar malfunction occurs when the switch is quickly released from the START position. Three (3) switches (No. S3A, S3B, S3C) which experienced this malfunction are used in the Residual Heat Removal (RHR) System.
- b. Electro Switch, GE Switch Number S3A, contains an additional problem with the internal contact arrangement of the switch. The contacts are arranged such that turning the switch to the STOP position would start the RHR pump and vice versa. This switch controls RHR Pump "A".

II. Proposed Resolution

Mississippi Power & Light Company is working with the constructor to resolve this deficiency. The following steps are being followed in this effort.

- a. Determine the extent of the deficiency;
- b. Perform an analysis for affects on safety of operations over the expected lifetime of the plant assuming that the deficiency remains uncorrected;
- c. Determine the cause of the deficiency;
- d. Determine and perform necessary corrective actions including actions to preclude recurrence; and
- e. Determine reportability of the deficiency under 10CFR21.

III. Status of Proposed Resolution

General Electric is performing the following actions:

- a. Coordinate with the manufacturer, Electro Switch, to determine corrective action for the condition described in I(a), above;
- b. Replace switch S3A noted in I(b), above; and
- c. Evaluate the nonconforming condition with Electro Switch to determine affect on safety of plant operations.

In addition, Bechtel has determined that these switches are not used in GGNS safety related equipment outside the Power Generation Control Complex (PGCC).

IV. Reason for Delay in Final Report

General Electric has not completed their evaluation and proposed corrective actions. Our final report requires this input for completion.

V. Final Report Date

We expect to file our final report on this matter by February 19, 1981.