



USNRC REGION 1  
**MISSISSIPPI POWER & LIGHT COMPANY**  
*Helping Build Mississippi*  
 P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

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JAMES P. McGAUGHY, JR.  
 ASSISTANT VICE PRESIDENT

January 8, 1982

Office of Inspection & Enforcement  
 U. S. Nuclear Regulatory Commission  
 Region I  
 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 0260/15525/15525  
 PRD-81/39, Interim Report #2,  
 Remote Shutdown Panels  
 AECM-82/07

Reference: AECM-81/418, 10/22/81

On September 22, 1981, Mississippi Power & Light Company notified Mr. P. A. Taylor, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns wiring terminations in the Remote Shutdown Panels supplied by the Reliance Electric Company.

This report was originally due on December 15, 1981, but extensions were requested and were granted by Messrs. F. S. Cantrell and R. Butcher, of your office.

We have not completed our determination of reportability. We expect to submit a final report by February 19, 1982.

Yours truly,

ATR:s  
 ATTACHMENT

cc: See page 2

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Mr. J. P. O'Reilly  
NRC

AECM-82/07  
Page 2

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 #2 FOR PRD-81/39

I. Description of the Deficiency

An investigative inspection of the wiring terminations in the Remote Shutdown Panels (1H22-P150 and 1H22-P151) detected numerous loose connections, improper wire crimps, and wire size to terminal lug size discrepancies. The detection of these discrepancies was based on an arbitrary acceptance criteria.

The Remote Shutdown System provides controls for reactor systems needed to carry out the shutdown function from outside the Control Room and bring the reactor to a safe shutdown condition in an orderly manner. These reactor systems are the Reactor Core Isolation Cooling (RCIC), Residual Heat Removal (RHR) Systems A & B, Standby Service Water (SSW) Systems A & B, and the Nuclear Boiler System (Safety-Relief Valves).

II. Approach to Resolution of the Problem

MP&L Project Engineering is to determine if the noted deficiencies, had they remained uncorrected, could have adversely affected the safety of operations of the plant. At this juncture, preliminary indications are that the deficiencies do not appear to be a result of vendor actions for the following reasons:

1. The purchase specification stipulates rigid requirements for point-to-point continuity and seismic testing.
2. The panels successfully passed a rigorous testing program by the vendor.
3. Subsequent point-to-point continuity checks and loop calibration checks by Start-up personnel have not revealed any functional problems.

III. Status of Proposed Resolution

MP&L Project Engineering has been asked to conduct additional evaluations to determine the specific effects on safety as well as the specific cause of the deficiencies.

Corrective actions have been initiated to rework the panels.

IV. Reason for Delay of Final Report.

Investigative actions have not been completed.

V. Final Report Date

We expect to submit a final report by February 19, 1982.