



MISSISSIPPI POWER & LIGHT COMPANY

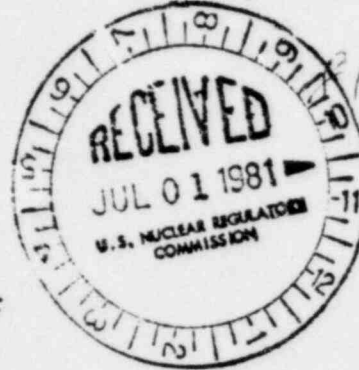
Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. McGAUGHY, JR.
ASSISTANT VICE PRESIDENT

June 9, 1981

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-79/07, Final Report,
Inadequate Circuit Separation
AECM-81/199

50-416
50-417

On March 23, 1979, Mississippi Power & Light Company notified Mr. J. K. Rausch, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns circuit separation deficiencies associated with Unit 1 and 2 Power Generation Control Complexes (PGCC).

We have determined that this deficiency is reportable under 10CFR50.55(e). Our investigation per 10CFR Part 21 is continuing. Our final report on this deficiency is attached.

Yours truly,

J. P. McGaughy, Jr.
J. P. McGaughy, Jr.

EWC/dr
Attachment

cc: See page 2

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Mr. J. P. O'Reilly
NRC

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


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Mr. L. E. Ruhland
Mr. D. L. Hunt
Mr. A. G. Wagner
Mr. P. A. Taylor
PRD File
File

FINAL REPORT FOR PRD-79/07

I. Description of the Deficiency

This issue was discovered originally during a limited scope audit of components designated for the GGNS Unit #2 Power Generation Control Complex (PGCC). The deficiency initially concerned apparent nonconformances with Regulatory Guide 1.75 in that improper separation was noted with redundant Class IE wiring Division 1 and Division 4, terminating on common device FK-48B in panel 2H13P692. Further investigation revealed that the same condition existed on panels 2H13P693 and 2H13P694.

Later investigations, including site inspections by the NSSS supplier, have indicated that apparent violations of the separation criteria of Regulatory Guide 1.75 exist in Unit #1 control room panels also.

II. Analysis of Safety Implications

The NSS vendor has stated that, without correction, separation items involving wire and cable separation routing would not conform to Regulatory Guide 1.75. MP&L has, therefore, concluded that this deficiency is reportable under 10CFR50.55(e). Our investigation for reportability under 10CFR Part 21 is continuing.

III. Corrective Actions Taken

Initial corrective actions to address the audit items and other separation deficiencies noted included wire redressing, conduit installation, and wire relocation. In some cases, the NSSS supplier attempted to establish minimum separation by fire tests and analyzing the flame retardant characteristics of control panel materials, as allowed by IEEE Standard 384. Fire tests were conducted on a representative set of devices and conduit material used in GGNS control room panels. These fire tests are now completed. MP&L has been informed that all devices and materials passed this testing.

Field Deviation Disposition Requests (FDDRs) and Field Disposition Instructions (FDIs) have been utilized to track and correct the separation deficiencies. Corrective actions are scheduled for completion by 9/1/81.