



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. McGAUGHY, JR.
ASSISTANT VICE PRESIDENT

August 10 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-81/19, Final Report
Mechanical Connections in GE
Termination Blocks
AECM-81/155

On March 5, 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 the indeterminate integrity of mechanical connections used in GE termination blocks.

Our engineering staff has evaluated this deficiency and has determined, that it could not have affected the safety of operations of the nuclear power plant and is not reportable under the provisions of 10CFR50.55(e).

This report was previously due on August 3, 1981 but a one week extension was granted by Mr. Caudle Julian and Mr. Floyd Cantrell on that date. Attached is our final report.

Yours truly,

JPM J. P. McGaughy, Jr.

KDS:scb
ATTACHMENT
cc: See page 2

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Member Middle South Utilities System

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Mr. J. P. O'Reilly
NRC

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

Mr. Victor Stello, 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

bbc: Mr. D. C. Lutken
Dr. D. C. Gibbs
Mr. J. N. Ward
Mr. J. P. McCaughy, Jr.
Mr. W. A. Braun
Mr. R. Trickovic
Mr. J. W. Yelverton
Mr. L. F. Dale
Mr. C. K. McCoy
Mr. T. H. Cloninger
Mr. R. A. Ambrosino
~~Mr. R. G. From A.S. Issue~~
Mr. G. B. Rogers
Mr. M. R. Williams
Mr. L. E. Ruhland
Mr. D. L. Hunt
Mr. A. G. Wagner
Mr. P. A. Taylor
PRD or Inspection Report File
File

Mr. J. Letherman
Manager of BWR-6 Licensing
General Electric Company
175 Curtner Avenue
San Jose, Ca. 95125

Mr. D. M. Houston
U. S. Nuclear Regulatory Commission
Division of Licensing
Washington, D. C. 20555

Final Report for PRD-81/19

I. Description of the Deficiency

The integrity of wire terminations in terminal blocks located in the Power Generation Control Complex (PGCC) termination cabinets appeared to be indeterminate. The terminal blocks, supplied by General Electric, have mechanical connections (screws which tighten onto the wire strands). Initially, the screws appeared not to have full thread engagement on 1/2" WG and smaller wire. It appeared that the screws could become loose and/or damage to the conductors could occur.

II. Analysis of Safety Implications

The NSSS vendor determined that this deficiency does not adversely affect the safety of operations of the nuclear power plant. A detailed review by Mississippi Power and Light has shown that there is full thread engagement on both sides of the screw. No damage to the conductors has occurred. Therefore, this deficiency is not reportable under the provisions of 10CFR50.55(e).

III. Corrective Actions Taken

None required.