



# MISSISSIPPI POWER & LIGHT COMPANY

*Helping Build Mississippi*

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

PRODUCTION DEPARTMENT

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

October 2, 1979

Attention: Mr. J. P. O'Reilly, Director

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station  
Bechtel Job No. 9645  
File 0260/0498/15521  
Interim Report for PRD-79/12  
as Defined in 10 CFR 50.55 (e)  
AECM-79/110

On September 4, 1979, Mississippi Power & Light Company notified Mr. V. Brownlee of your office of a potentially reportable deficiency at the Grand Gulf Nuclear Station construction site. The deficiency concerns the Rosemount 510 DU Trip Units drawing more current than originally specified causing the power supplies to be inadequate. We have determined that this matter is reportable within the meaning of 10 CFR 50.55 (e). Details of the latest information are described in the attached report.

Yours truly,

L. F. Dale  
Nuclear Project Manager

**POOR ORIGINAL**

JRF/JDR:mlc  
Attachment

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

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

bcc: Dr. D. C. Gibbs  
Mr. Adrian Zaccaria  
Mr. J. N. Ward  
Mr. D. M. Lake  
Mr. R. L. Scott  
Mr. W. L. Hall  
Mr. J. P. McGaughy  
Mr. T. E. Reaves  
Mr. C. K. McCoy  
Mr. J. C. Fuller  
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INTERIM REPORT FOR PRD 79/12 AS DEFINED IN

10 CFR 50.55(e)

I. Description of Deficiency:

Rosemount has identified a problem with their Model 510 DU master and slave trip units. The maximum current drain for the master and slave trip units exceed the original specified value. The current required by the gross failure circuitry, which consists of the gross failure LED current and the silicon controlled rectifier (SCR) biasing current and the current required for the trip output LED, were not considered by Rosemount in the original specification. In addition, Rosemount has recently redesigned the trip units due to an increase in the supply current required to operate the 555 integrated circuit which is part of the negative 4.7 volt power supply.

II. Safety Implication:

Bechtel has reviewed the power sources for all the safety-related Rosemount Model 510 DU master and slave trip units to determine if the larger current drains would adversely affect the operation of the systems to which they are designated. As a result of this evaluation, it has been determined that power supplies P41-JY-K600 A and B for Units 1 and 2 (Bailey Model 808094003) are not large enough to handle the larger maximum current drains specified by Rosemount. All other power sources have adequate capacity to handle the larger current drains.

III. Corrective Action Taken:

Corrective action is expected to be completed by March 21, 1980, and submitted to you in a final report.

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