



# MISSISSIPPI POWER & LIGHT COMPANY

*Helping Build Mississippi*

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

January 19, 1982

NUCLEAR PRODUCTION DEPARTMENT

U. S. Nuclear Regulatory Commission  
Office of Nuclear Reactor Regulation  
Washington, D. C. 20555

Attention: Harold R. Denton, Director

Dear Mr. Denton:



SUBJECT: Grand Gulf Nuclear Station  
Units 1 and 2  
Docket Nos. 50-416 and 50-417  
File 0260/0756  
Report on Equipment Survivability  
for a Hydrogen Generation Event  
AECM-82/26

The enclosed report documents the overall efforts that Mississippi Power & Light (MP&L) has undertaken to provide reasonable assurance that before, during and after a Hydrogen Generation Event (HGE) the equipment required to maintain the reactor and reactor containment in a safe configuration will survive. This report is in support of the December 21, 1981 responses to NRC questions and to our December 21, 1981 meeting with the NRC staff on the hydrogen control issue.

This report provides sufficient justification for closing the issue of equipment survivability on the Grand Gulf Nuclear Station by extensive analysis of equipment and by comparison of predicted results to industry test results. No further analysis or testing is now planned by MP&L for the specific purpose of addressing equipment survivability issues on GGNS.

Yours truly,

L. F. Dale  
Manager of Nuclear Services

RMS/SHH/JDR:ph

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

Mr. Richard C. DeYoung, Director  
Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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