



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

January 28, 1983

NUCLEAR PRODUCTION DEPARTMENT

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

Attention: Mr. Harold R. Denton, Director

Dear Mr. Denton:

SUBJECT: Grand Gulf Nuclear Station
Units 1 and 2
Docket No. 50-416 and 50-417
License No. NPF-13
File 0260/L-860.0
Evaluation of Emergency
Procedures for Containment
Spray Actuation
References: 1) AECM-82/193
2) AECM-82/207
AECM-83/58

Mississippi Power & Light Company (MP&L) has been requested by members of your staff to review our position of initiating containment sprays at the same time as the Hydrogen Igniter System when the reactor core water level reaches the top of active fuel (TAF) due to postulated multiple failure. A detailed review is in progress, which is addressing the following issues:

1. Diversion of RHR from LPCI to containment spray mode.
2. Methods of detecting burns in the wetwell.
3. Qualification of components for detection and display of burn information.
4. Impact on equipment survivability due to delayed spray initiation.
5. Reactor operator intervention time for manual initiation of sprays following alarm and verification of hydrogen burns.

At the present time, qualified equipment is not in place which will detect the first burn. However, the second series of burns can be detected by the qualified equipment already operational. Further evaluation is in progress to determine whether later initiation of the sprays is the preferred long-term approach for plant operation.

In addition, regarding the impact on equipment survivability of delayed burn initiation, there is a considerable degree of conservatism in the equipment survivability calculations and it is not anticipated that there will be problems in this area.

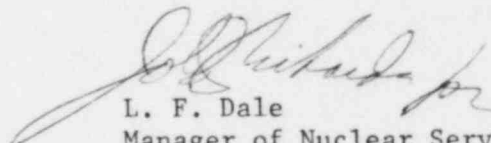
8302010528 830128
PDR ADOCK 05000416
P PDR

Boo1

This effort will ultimately culminate in appropriate statements in the Emergency Operating Procedure (EOP's) for the Grand Gulf Nuclear Station (GGNS). At this time, MP&L is, as described above, actively supporting Hydrogen Control Owners Group (HCOG) efforts to finalize a proposed Emergency Procedure Guideline (EPG) in cooperation with the EPG Committee of the BWR Owners Group.

Submittal of this completed study will be before the plant begins power ascension above 5% power. Should you require interim information please contact us.

Yours truly,



L. F. Dale
Manager of Nuclear Services

JRH/SHH/JDR:sap

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

Mr. J. P. O'Reilly, Regional Administrator
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II
101 Marietta St., N.W., Suite 3100
Atlanta, Georgia 30303