



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

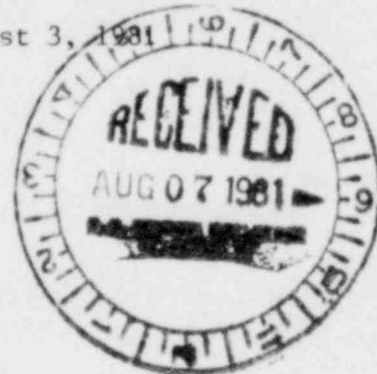
JAMES P. McGAUGHY, JR.
ASSISTANT VICE PRESIDENT

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:

August 3, 1981



SUBJECT: Grand Gulf Nuclear Station
Units 1 and 2
Docket Nos. 50-416/417
File 0260/15525/15526
PRD-80/60, Final Report
RCI Design Drawing Verification
AECM-81/240

References: 1) AECM-81/110, 3/16/81
2) AECM-81/32, 1/15/81
3) AECM-80/266, 10/27/80

On September 25, 1980, Mississippi Power & Light Company notified Mr. M. Hunt, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns Reactor Controls, Inc. (RCI) issuance of drawings prior to verification of design adequacy.

Because an extensive engineering effort would have been required to determine if this deficiency could have adversely affected the safety of plant operations if it had remained uncorrected, this condition has been determined to be reportable under the provisions of 10CFR50.55(e). It is not reportable under the provisions of 10CFR21, since the affected systems had not been turned over to MP&L for acceptance.

Yours truly,

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

KDS:scb
ATTACHMENT

cc: See page 2

8108100268 810803
PDR ADOCK 05000416
S PDR

IE27
S1/1

Mr. J. P. O'Reilly
NRC

AECM-81/240
Page 2

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. McGaughy, 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. C. Fron
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-80/60

I. Description of the Deficiency

Drawings on component and piping supports were approved and issued by Reactor Controls, Inc. (RCI) for construction prior to receiving verification of design adequacy from their design authority, EDS Nuclear. This deficiency was discovered during an audit by our Constructor of RCI's home office activities. The affected drawings concern only the Control Rod Drive Hydraulic System (C11) and the Neutron Monitoring System (C51). It was later determined that all RCI drawings, where RCI was the design agency, did not have objective evidence of design adequacy.

The deficiency affects both Unit 1 and Unit 2. The cause of this condition was that RCI did not have a program requirement for providing objective evidence of design adequacy verification. This condition does not apply to the NSSS vendor.

II. Analysis of Safety Implications

Since RCI did not have any program requirements for providing objective evidence of design adequacy, any design activity performed by RCI could have been involved.

Because an extensive engineering effort would have been required to determine if this deficiency could adversely affect the safety of plant operations if it had remained uncorrected, this condition has been determined to be reportable under the provisions of 10CFR50.55(e). It is not reportable under the provisions of 10CFR21, since the affected systems had not been turned over to MP&L for acceptance.

III. Corrective Actions Taken

Our Constructor issued a Stop Work Notice on any safety related work performed by RCI until verification of design adequacy has been substantiated. RCI has issued an internal Stop Work Order establishing an action plan to be completed before work is resumed.

To preclude recurrence RCI has also issued an addendum to their QA Manual which requires design verification and states in part:

"All RCI drawings requiring stress analysis shall be approved by the Stress Analysis Manager to verify the adequacy of design prior to issuance...shall be documented by a sign-off on the drawing."

In the future RCI will perform their own design verification activities. They no longer have a contract with EDS Nuclear. RCI has also issued a new controlled manual, Quality Assurance Instructions, which supplements their QA Manual. RCI personnel have received indoctrination and training on the new Quality Assurance Instructions.