



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

May 3, 1982

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, Regional Administrator

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
File 0260/15525/15526
PRD-82/16, Final Report, MSIV
Leakage Control System
AECM-82/200

On April 2, 1982, Mississippi Power & Light Company notified Mr. A. Hardin, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns the outboard sub-system process line layout of the Main Steam Isolation Valve (MSIV) Leakage Control System (MSIV-LCS) (E32) in Unit 1.

We have evaluated this deficiency and have determined that it is a substantial safety hazard and is reportable under the provisions of 10CFR50.55(e) and 10CFR21 for Unit 1. Reportability under the provisions of 10CFR21 was reported by telephone to Mr. R. Butcher on April 22, 1982.

The required modifications have now been completed in the E32 System and General Electric will revise the design specification, in accordance with MP&L recommendations, to prevent recurrence of the problem in Unit 2.

Our Final Report is included as Attachment A.

Yours truly,

RDC:dr
ATTACHMENT

cc: See page 2

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Member Middle South Utilities System

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Mr. J. P. O'Reilly
NRC

AECM-82/200
Page 2

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

Mr. Richard C. DeYoung, 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

FINAL REPORT TO PRD-82/16

1. Name and address of the individual ... informing the commission:

J. P. McGaughy, Jr.
Assistant Vice-President, Nuclear Production
P.O. Box 1640
Jackson, Mississippi 39205

Notification of Part 21 applicability made to Mr. R. Butcher, NRC, Region II by telephone on April 22, 1982, by MP&L.

2. Identification of the facility ... which ... contains a deficiency:

Grand Gulf Nuclear Station (GGNS) Unit 1
Port Gibson, Mississippi 39150

3. Identification of the firm ... supplying the basic component which ... contains a deficiency:

The design specification, which implied that the the depressurization line piping have a downward slope to avoid water pockets, but did not specifically call for it, was supplied by the General Electric Corporation in San Jose, California.

4. Nature of the deficiency ... and the safety hazard which ... could be created by such a deficiency ...:

A. Description of the Deficiency

The deficiency concerns the outboard sub-system process line layout of the Main Steam Isolation Valve (MSIV) Leakage Control System (MSIV-LCS) (E32) in Unit I. The General Electric Design Specification 22A4674 implies that the depressurization line piping have a downward slope to avoid water pockets, however, it does not specifically call for it. A section of the depressurization line was installed, by Bechtel, with an upward vertical slope for a distance of approximately seven (7) feet.

B. Analysis of Safety Implications

During a postulated accident condition wherein the system would be required to operate, the static head of the condensate in the upward slope portion of the line could prevent the leakage control system from functioning. This would prevent the intended depressurization of the main steam lines to near atmospheric pressure.

If the MSIV-LCS were not operational during a postulated accident condition, the off-site dose rates might exceed the guidelines of 10CFR100.

5. The date on which the information of such deficiency ... was obtained.

Mississippi Power and Light received information of the deficiency on April 2, 1982. We reported the deficiency to Mr. A. Hardin, of your office, as a Potentially Reportable Deficiency on that date and to Mr. R. Butcher as reportable under 10CFR21 on April 22, 1982. An evaluation for Part 21 has been completed and the MP&L "Responsible Officer," Mr. J. P. McGaughy, Jr., has been notified.

6. In the case of the basic component ... the number and location of all such components.

We do not have knowledge of the location of defective equipment located other than at GGNS.

7. The corrective action which has been taken ... the name of the individual ... responsible for the action; and the length of time that has been ... taken to complete the action.

A. Corrective Actions Taken

The outboard subsystem process line has been rerouted so that it does not contain an upward slope and terminates in an area which is serviced by the Standby Gas Treatment System.

A walkdown of all the process piping in the E32 System was performed. All piping was found to have the proper slope with the exception of the described outboard depressurization piping, which, as stated above, has been corrected.

B. Responsible Individual

G. B. Rogers, Jr.
Site Manager
Mississippi Power and Light Company

C. Length of Time to Complete Actions

Mississippi Power & Light received information of the deficiency on April 2, 1982.

All rerouting of depressurization piping has been completed and General Electric will revise the design specification, to assist in preventing recurrence of the problem in Unit 2.

8. Any advice related to the deficiency ... that has been, is being, or will be given to purchasers or licensees:

As the deficiency did not originate with MP&L, we have no advice to offer.