



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

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J. B. RICHARD
SENIOR VICE PRESIDENT - NUCLEAR

July 3, 1984

U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, N.W.
Suite 2900
Atlanta, Georgia 30323

Attention: Mr. J. P. O'Reilly, Regional Administrator

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station
Units 1 and 2
Docket Nos. 50-416/417
License No. NPF-13
File 0260/15525/15526/16694.,
PRD-83/06, Final Report for Unit 2,
Carbon Steel Instrument Air Penetration
AECM-84/2-0012

Reference: 1) AECM-83/0179, 3/15/83
2) AECM-83/0324, 6/6/83

On March 15, 1983, Mississippi Power & Light Company notified Mr. F. Cantrell, of your office, of a deficiency at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerned the installation of non-corrosion resistant material for instrument air pipe penetrations.

MP&L had evaluated this deficiency and determined that it is reportable under the provisions of 10CFR21 for Unit 1. We had previously stated that it was not reportable under 10CFR50.55(e) for Unit 2 since all Unit 1 Design Change Packages (DCP's) are screened for the purpose of identifying significant Unit 1/Unit 2 design divergence. Since DCP-82/817 had been generated to correct the noted deficiency on Unit 1 it would also have been implemented on Unit 2.

Further evaluation, however, of reporting requirements under 10CFR50.55(e) indicated that screening of design changes on Unit 1 for Unit 2 applicability was not sufficient to ensure non-reportability for Unit 2. Therefore, on June 4, 1984, Mr. R. Carroll, of your office, was notified of this deficiency for Unit 2 under the reporting requirements of 10CFR50.55(e).

All details, including corrective actions and actions to prevent recurrence, are given in our attached supplemental report.

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Yours truly,

For J. B. Richard

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cc: See page 2

Member Middle South Utilities System

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Mr. J. P. O'Reilly
NRC

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FINAL REPORT FOR UNIT 2, PRD-83/06

I. Description of the Deficiency

In lieu of corrosion resistant piping specified by the NSSS supplier, carbon steel piping was specified for use in the instrument air system downstream of the final filters. Carbon steel piping is specified for the containment and drywell penetrations in lines supplying air for the safety related Main Steam Isolation Valve (MSIV) and Main Steam Relief Valve (MSRV) valve operations.

The deficiency affects the Instrument Air System (P53) and the Nuclear Boiler System (B21). It is not reportable under 10CFR Part 21 for Unit 2 since the systems have not been turned over to MP&L.

II. Analysis of Safety Implications

The Instrument Air System interfaces with the Nuclear Boiler System by supplying air to safety-related air accumulators for the MSIV's and MSRV's. Corrosion products could prevent the required movement of the solenoid valves that admit air from the air accumulators to the valve operators.

The existence of carbon steel piping and components downstream of the final filters could, over a period of time, induce corrosion products into the instrument air system. These corrosion products could prevent the required movement of the solenoid valves associated with the MSIV's. Failure of the solenoid valves to change position, when required, during a steam line break would prevent closure of the MSIV's. This could lead to exceeding the limits of 10CFR100, during the accident, when the MSIV's are required to close.

III. Corrective Actions Taken

Piping & Instrumentation Drawings M-2067A, and M-2067C have been revised to show the proper material, stainless steel, to be used for Unit 2. The entire Unit 2 Instrument Air System has been reviewed in an effort to prevent any further occurrences.

bcc: Mr. D. C. Lutken
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File (Project) [5]

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