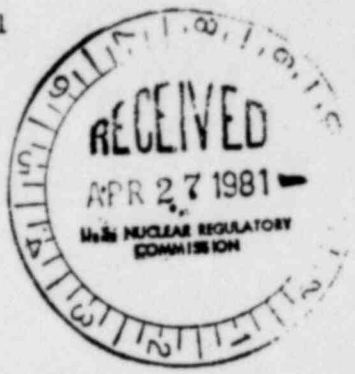
Victor Stello

MISSISSIPPI POWER & LIGHT COMPANY
Helping Build Mississippi
P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. McGAUGHY, JR.
ASSISTANT VICE PRESIDENT

April 20, 1981



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:

SUBJECT: Grand Gulf Nuclear Station
Units 1 and 2
Docket Nos. 50-416/417
File 0260/15525/15526
PRD-81/22, Status Report #1, Non-Qualified HVAC System
AECM-81/148

On March 20, 1981, Mississippi Power & Light Company notified Mr. P. A. Taylor, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns non-seismic qualified ventilation systems which provide environmental cooling of seismic qualified systems.

Our investigation into this matter is continuing. Attached is our Status Report #1. We expect to furnish our final report on this deficiency on or before August 14, 1981.

Yours truly,

J. P. McGaughy, Jr.

WHU:mt
Attachment

cc: See page 2

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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

STATUS REPORT NO. 1 FOR PRD-81/22

I. Description of the Deficiency

The HVAC Equipment Room on Elevation 133' of the Control Building and the Spent Fuel Pool Cooling Pump Room in the Auxiliary Building contain safety related equipment which is seismically and environmentally qualified and must operate after a seismic event. NRC FSAR questions 010.24 and 010.25 requested information on how these rooms would be environmentally controlled after a seismic event. Upon review by our Architect/Engineer of the existing HVAC design, it was noted that HVAC to the Control Building HVAC Equipment Room and the Spent Fuel Pool Cooling Pump Room was provided only by non-seismically qualified HVAC systems.

The systems affected by this deficiency are the Safety Switchgear and Battery Room Ventilation System, Control Room HVAC Systems, and Spent Fuel Pool Cooling System. Investigation is currently in progress to determine whether or not the Standby Gas Treatment System would also be adversely affected by this deficiency.

This deficiency is applicable to Unit 1, Unit 2, and common.

II. Approach to Resolution of the Problem

The cause of the deficiency was the failure of the HVAC design to address interfaces with safety related equipment operability requirements.

A redundant seismic category I cooling system has been designed for the Spent Fuel Pool Cooling Pump Room. A redundant seismic category I cooling system will be provided for the HVAC equipment either by designing a new system, modifying the Safeguard Switchgear and Battery Room Ventilation system, or by upgrading the Control Building Ventilation System. All three design approaches are presently being evaluated. If analysis of the SGTS rooms indicates a need for additional ventilation, a seismic category I, redundant HVAC system will be provided.

III. Status of Proposed Resolution

Our Architect/Engineer is currently evaluating all possible system interactions. Engineering evaluation is scheduled to be completed by June 1, 1981.

IV. Reason Why Final Report Will Be Delayed

Engineering analysis must be completed to determine whether this deficiency applies to the SGTS Rooms. Dates for completion of all actions cannot be determined until the design of the HVAC system for the HVAC Equipment Room is complete and equipment delivery dates are established.

V. Date When Final Report Will Be Submitted

We expect to complete our analysis and furnish our final report on this matter on or before August 14, 1981.