



USNRC REGION II
MISSISSIPPI POWER & LIGHT COMPANY
Helping Build Mississippi
P. O. BOX 1640 JACKSON, MISSISSIPPI 39205
DEC 2 1981

JAMES P. McGAUGHY, JR.
ASSISTANT VICE PRESIDENT

November 30, 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, Regional Administrator

Dear Mr. O'Reilly:



SUBJECT: Grand Gulf Nuclear Station
Units 1 and 2
Docket Nos. 50-416/417
File 0260/15525/15526
PRD-81/44, Interim Report No. 1,
Unqualified Bettis Air Actuators
on Henry Pratt Valves
AECM-81/470

On October 29, 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 unqualified Bettis Air Actuators on Henry Pratt Valves.

Our investigation into the deficiency is not complete. Safety implications and reportability have not been determined. Results of the evaluation thus far are contained in our attached interim report. We expect to submit a final report by January 29, 1982.

Yours truly,

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

KDS:dr
ATTACHMENT

cc: See page 2

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Member Middle South Utilities System

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Mr. J. P. O'Reilly
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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

INTERIM REPORT NO. 1 FOR PRD-81/44

I. Description of the Deficiency

Bettis Air Actuators furnished with certain Henry Pratt butterfly valves under specifications M-257.0 and M-258.0 are not typical of the units utilized for Qualification Testing.

Investigative data indicates that the delivered valve actuators do not match the qualified test units. The difference between the delivered actuators and the test units consists of materials of construction in all cases and design in some cases. Hence, a direct correlation to verify functional operability cannot be made at this time.

The known defective actuators are located in Unit 1. It is not known at this time if there are any in Unit 2.

The deficiency affects the Containment Cooling System (M41), the Auxilliary Building Ventilation System (T41), the Fuel Handling Area Ventilation System (T42) and the Control Room HVAC System (Z51).

The potential exists for failure of the valves to function under seismic and environmental conditions as required by our Constructor's specifications. At this time the functional operability of the valves cannot be determined. If the condition had remained uncorrected, it is possible that the actuators may not perform their intended safety function.

An independent testing organization is currently performing tests on the subject valves so that a complete analysis of safety implications may be performed.

We are continuing our investigation into reportability.

II. Approach to Resolution of the Problem

The specific cause of the deficiency has not been identified.

The deficiency is known to affect Bettis Air Actuators on sixteen (16) Henry Pratt valves at GGNS. When the cause has been determined, an investigation will be conducted to determine the extent and actions to preclude recurrence will be formulated.

Actions to correct the existing deficiencies will be based on the results of tests currently being run by the actuator manufacturer.

III. Status of Proposed Resolution

The safety implications, cause and extent of the deficiency, and actions to preclude recurrence have not been determined. These actions will be completed after the test results from the independent testing laboratory have been received.

Remedial actions to correct the existing deficiency will be formulated after test results have been received from the actuator manufacturer.

IV. Reason Why A Final Report Will Be Delayed

Mississippi Power and Light is awaiting the test results from the valve manufacturer and the independent testing lab.

V. Date When Final Report Will Be Submitted

A Final Report Will Be submitted by January 29, 1982.