



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. McGAUGHY JR.
ASSISTANT VICE PRESIDENT

April 29, 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:

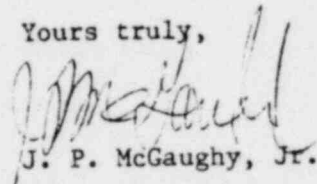
SUBJECT: Grand Gulf Nuclear Station
Units 1 and 2
Docket Nos. 50-416/417
File 0260/15525/15526
PRD-80/67, Interim Report #2,
Installation of Ventilation Fire
Dampers
AECM-81/160

Reference: AECM-80/301

On November 3, 1980, Mississippi Power & Light Company notified Mr. J. Rausch, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns the installation of fire dampers in ventilation systems.

Our investigation into this matter is continuing. Our interim report #2 is attached. We expect to provide our final report on this deficiency on or before December 1, 1981.

Yours truly,


J. P. McGaughy, Jr.

WHU:mt
Attachment

cc: See page 2



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Mr. J. P. O'Reilly
NRC

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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

INTERIM REPORT NO. 2 FOR PRD-80/67

I. Description of the Deficiency

Installation documents for fire dampers in heating-ventilating and air conditioning systems (HVAC) lack sufficient detail/design information and definitive instructions to adequately define size and location of welds or fasteners.

The plant systems affected by this deficiency are: the Diesel Generator Building Ventilation System, Control Building Ventilation System, Water Treatment Building Ventilation System, Control Room HVAC System, Emergency Switchgear & Battery Room Ventilation System, Auxiliary Building Ventilation System, Fuel Handling Area Ventilation System, Turbine Building Ventilation System, and the Radwaste Building Ventilation System.

This deficiency is applicable to Units 1 and 2 and is not reportable under 10CFR Part 21. Two systems have been turned over to and accepted by MP&L, and while this deficiency applies to these systems, the Water Treatment Building Ventilation System is a non-safety related system, and the deficiencies applicable to the Diesel Generator Building Ventilation System were identified and documented prior to acceptance by MP&L.

The potential exists that the installed configuration of the fire dampers would not be in accordance with National Fire Protection Association (NFPA) and Underwriter's Laboratory's requirements for a fire rated barrier and would therefore possibly not confine a fire which could affect redundant trains of safety related systems required for safe shutdown. Therefore, this deficiency is reportable under 10CFR50.55(e).

II. Approach to Resolution of the Problem

This deficiency resulted from a design deficiency. Drawings and Instructions issued for construction lacked sufficient detail/design information and definitive instructions to ensure the integrity of the installation.

Deviations, such as weld installations, which are not per vendor's instructions but are allowed by other vendor's installation instructions for similar equipment, are currently being evaluated by Underwriters Laboratory (UL) per vendor request. Other deviations and associated corrective action shall be fire tested by UL per vendor request.

The fire damper installation design drawing has been revised to conform to NFPA 90A, UL555, and the vendor's installation instructions.

Deviations from this design, which are justified by engineering analysis, require revised vendor's installation instructions or fire testing, which will be included on the installation drawings.

A 100% survey of fire damper installations is currently in progress. Any deviations from engineering or testing design shall be documented, analyzed, and reworked as necessary.

III. Status of Proposed Resolution

The results of the above inspection will be documented. The documentation will be identified with the applicable NCR/DR number. This documentation will be attached to and maintained for Q fire dampers with NCR 5183 and for non-Q fire dampers with DR No. 1481.

IV. Reason Why A Final Report Will Be Delayed

Our final report will be delayed until all actions above are completed and Underwriter Laboratory's testing and documentation are analyzed.

V. Date When Final Report Will Be Submitted

We expect to submit our final report on this deficiency on or before December 1, 1981.