



# MISSISSIPPI POWER & LIGHT COMPANY

*Helping Build Mississippi*

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

April 16, 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  
Units 1 and 2  
Docket Nos. 50-416/417  
File 0260/15525/15526  
PRD-82/C4, Final Report, Standby  
Diesel Generator Starting Air  
Compressor  
AECM-82/164

Reference: AECM-82/85, 3/8/82

On February 5, 1982, Mississippi Power & Light Company notified Mr. Ross Butcher, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns the sensing line between the Standby Diesel Generator Starting Air Receiver Tank and Starting Air Compressor. The sensing line is not seismically supported.

In the above referenced letter, MP&L reported that this deficiency was reportable under the provisions of both 10CFR50.55(e) and 10CFR21 for the Delaval Standby Diesel Generator at Grand Gulf and that an investigation was continuing to determine the applicability of this problem to the Division III diesel supplied by Morrison-Knudsen. The investigation, concerning the Division III diesel, has concluded that this deficiency is reportable under the provisions of 10CFR50.55(e) and 10CFR21. All details are provided in our attached Final Report.

Yours truly,

J. P. McGaughy, Jr.

ACP: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-82/164  
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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

FINAL REPORT ON PRD-82/04

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. J. P. O'Reilly, NRC, Region II by letter AECM-82/164, April 16, 1982.

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

Grand Gulf Nuclear Station (GGNS) Units 1 and 2  
Port Gibson, Mississippi 39150

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

The Division III diesel was supplied to Grand Gulf by General Electric Company located in San Jose, California, but was manufactured by Morrison-Knudsen located in Rocky Mount, North Carolina.

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

A. Description of the Deficiency

A deficiency was previously identified in the starting air system for the Delaval Standby diesel generators. The starting air receiver tanks had a 3/8" O. D. tubing sensing line feeding directly back to the starting air compressors. The starting air receivers were seismic Category I and the compressors were non-seismic. The 3/8" O. D. sensing lines connecting the receivers to the air compressors were not seismically supported.

The Division III (HPCS) diesel generator has a similar piping configuration. The HPCS diesel air start system has a motor driven air compressor, a diesel driven air compressor, and four air receivers. The air receivers are seismically qualified, but the air compressors are non-seismic. All four receivers and both air compressors are connected by a common 1/4" O.D. tubing sensing line which is not seismically supported. This deficiency is applicable to the Unit 1 and Unit 2 Division III Morrison-Knudsen diesels supplied by General Electric.

B. Analysis of Safety Implications

During a seismic event the following condition could occur. A break in the sensing line or pressure sensing device could allow the air receiver pressure to decrease below the minimum allowable Technical Specification pressure of 175 PSIG. If the pressure were bled off, the air receivers would not be capable of performing the design safety function of providing starting air for the HPCS diesel.

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

As a result of the deficiency identified on the Transamerica Delaval generators on February 4, 1982, Mississippi Power and Light reported the deficiency to Mr. Ross Butcher, of your office, as a Potentially Reportable Deficiency on February 5, 1982. Since that date MP&L filed one (1) Interim Report stating that the deficiency was reportable under both 10CFR50.55(e) and 10CFR21 for the Delaval diesel generators. MP&L also informed the Commission that an inquiry was being initiated as to the applicability of this deficiency to the Morrison-Knudsen Diesel Generator. MP&L received information on April 16, 1982, that the deficiency was reportable under 10CFR50.55(e) and 10CFR21. The MP&L "Responsible Officer," Mr. J. P. McGaughy, Jr., will be notified when he returns to his office.

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

A Field Deviation Disposition Request (FDDR) is being prepared by General Electric to reroute the non-seismic sensing line for the unloaders from the seismically qualified air storage tanks to the non-seismic header of the air storage tanks. New pressure switches seismically qualified to IEEE-344-1975 are being procured and will be located on each of the air storage tanks to provide controls for the air compressors.

B. Responsible Individual

C. K. McCoy  
Nuclear Plant Manager  
Mississippi Power and Light Company

C. Length of Time to Complete Actions

The corrective action is expected to be completed by June 1, 1982.

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.