



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

JAMES P. McGAUGHY, JR.
ASSISTANT VICE PRESIDENT

January 31, 1983

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
License No. NPF-13
Docket Nos. 50-416/417
File 0260/15525/15526
PRD-82/14, Interim Report No. 5,
Sheared Bolts on Diesel
Generator Rear Crankcase Cover
AECM-83/0070

References: AECM-82/176, 4/21/82
AECM-82/288, 6/25/82
AECM-82/380, 9/7/82
AECM-82/521, 11/8/82

On March 22, 1982, Mississippi Power & Light Company notified Mr. R. Butcher, of your office, of a Potentially Reportable Deficiency (PRD) at the Grand Gulf Nuclear Station (GGNS) construction site. The deficiency concerns sheared bolts on the rear crankcase cover of the Delaval diesel generators.

As previously reported, MP&L has evaluated this deficiency and determined that it is reportable under the provisions of 10CFR50.55(e) and 10CFR21 for Unit 1, and 10CFR50.55(e) for Unit 2.

The only additional information MP&L has at this time is that:

1. DCP-82/4183 has been initiated and released for construction to replace the rear crankcase cover bolts with more fatigue resistant bolts. The new bolts would be installed as per Delaval's suggested disposition to use Loctite-271 and increase the torque to 100 ft. lbs. Tab washers would also be used.
2. A proposed program is being developed to instrument the diesel and collect data during a test run. Delaval indicated that the cause of the bolt failures was vibration of the cover plate induced by the firing of the rear cylinder.

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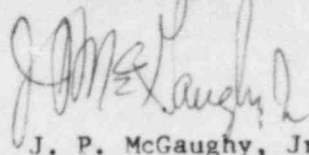
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A Final Report will be submitted when the data in 2. above has been collected, analyzed and determinations are made as to a. the cause of the fatigue failures of the bolts and b. possible further corrective actions. MP&L expects this to be completed by June 1, 1983.

Yours truly,



J. P. McGaughy, Jr.

AGP:dr

cc: Mr. N. L. Stampley
Mr. R. B. McGehee
Mr. T. B. Conner

Mr. Richard C. DeYoung, Director
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