



MISSISSIPPI POWER & LIGHT COMPANY

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P. O. BOX 1640, JACKSON, MISSISSIPPI 39215-1640

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August 6, 1985

NUCLEAR LICENSING & SAFETY DEPARTMENT

U. S. Nuclear Regulatory Commission
Region II
101 Marietta St., N.W., Suite 2900
Atlanta, Georgia 30323

Attention: Dr. J. Nelson Grace, Regional Administrator

Dear Dr. Grace:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-29
File: 0260/L-835.0
HPCS Diesel Generator 13,
Generator Failure
AECM-85/0232

On July 13, 1985, at 0315 while maintenance technicians were performing "HPCS Diesel Generator 13 Functional Test", 06-OP-1P81-M-0002, HPCS Diesel Generator 13 was stopped by the operator when sparks were observed coming from the generator bearing end cap.

Inspections revealed radial movement of the shaft end had allowed contact between the shaft and bearing end cap. This allowed circulating currents to be established with resultant sparks and overheating.

Close inspection revealed a low spot in the insulation under the bearing inner race which allowed excessive radial movement of the shaft. The diesel generator was declared inoperable and the damaged generator was replaced.

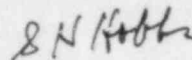
The damaged generator will be shipped to the vendor repair facility for further inspections and tests. This will aid in determining whether the ultimate cause of failure could be attributed to a generic problem and of interest to other facilities. If the failure is determined to be generic in nature, a supplemental report will be issued.

The diesel generator was out of service for 9.5 days. The July 13th diesel start was successful and was intentionally terminated without loading; therefore, this is considered an invalid failure and the surveillance test interval remains at 14 days in accordance with the test schedule of Regulatory

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Position C.2.d of Regulatory Guide 1.108. This report is submitted pursuant to Technical Specification 4.8.1.1.3.

Yours truly,



 L. F. Dale
Director

JRM/EBS/SHH:dmm

cc: Mr. J. B. Richard
Mr. O. D. Kingsley, Jr.
Mr. R. B. McGehee
Mr. N. S. Reynolds
Mr. H. L. Thomas
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