



MISSISSIPPI POWER & LIGHT COMPANY

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March 5, 1984

NUCLEAR PRODUCTION DEPARTMENT

U. S. Nuclear Regulatory Commission
Region II
101 Marietta St., N.W., Suite 2900
Atlanta, Georgia 30303

Attention: Mr. J. P. O'Reilly, Regional Administrator

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-13
File 0260/L-835.0
Special Report 84-005/0 - HPCS
Diesel Generator Trip
AECM-84/0116

On February 1, 1984, at 0340 hours the HPCS Diesel Generator tripped on low Lube Oil Pressure during a routine surveillance. A time delay relay required to be set at 60 seconds to allow time for the engine driven lube oil pump to develop pressure was found set at approximately 6.5 seconds. This drift/failure of the time delay relay enables a premature lube oil pressure trip. The trip however is bypassed in the LOCA Emergency Mode. A second start attempted shortly after the trip would be successful due to the pump and piping being primed and the Low Lube Oil Pressure Shutdown signal lasting shorter than 6.5 seconds.

Relay TD5 is a pneumatic delay type Agastat relay (Model No. 7012) rated for 20 to 200 second application. The relay was last calibrated on October 17, 1981. Since that time, there have been greater than 200 starts. The relay is cycled on every start.

The relay was replaced with an identical component and similar type relays were calibrated. The diesel generator remained out of service for approximately 13.5 days. The relay will be calibrated on an eighteen month frequency.

The failure is considered non-valid pursuant to position C.2.e(2) of Regulatory Guide 1.108. Events of HPCS Diesel Generator trips which could not previously be attributed to any component malfunctions were LER 83-101 on July 18, 1983, and LER 83-189 on December 7, 1983. Data from the incident on July 18, 1983, is not sufficient to associate this trip with the TD5 relay failure. Therefore, the trip remains classified as a valid failure. However, the data reported from the trip on December 7, 1983, and subsequent troubleshooting efforts show sufficient reason to attribute this trip to the failed relay. The trip on December 7 is considered invalid. LER 83-189 will be revised.

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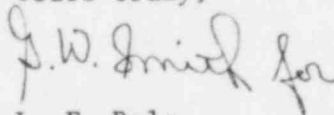
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The current number of valid failures is one in the last one hundred. The current testing frequency is once per month. This Special Report is submitted pursuant to Regulatory Guide 1.108.

Yours truly,



L. F. Dale

Manager of Nuclear Services

EBS/SHH:sad

cc: Mr. J. B. Richard
Mr. R. B. McGehee
Mr. T. B. Conner
Mr. G. B. Taylor

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