



**GULF STATES UTILITIES COMPANY**

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February 26, 1988  
RBG-27504  
File Nos. G9.5, G9.25.1.4

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Gentlemen:

River Bend Station - Unit 1  
Docket No. 50-458

Enclosed is Gulf States Utilities Company's Special Report concerning an invalid failure of the Division II Diesel Generator during a surveillance test at River Bend Station. This report is submitted pursuant to Technical Specification: 4.8.1.1.3 and 6.9.2.

Sincerely,

*J. E. Booker*

J. E. Booker *by RJK*  
Manager-River Bend Oversight  
River Bend Nuclear Group

*mt*  
JEB/TFP/AOF/RRS/ch

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## SPECIAL REPORT

At 1220 on 1/28/88, the monthly surveillance test on the Division II diesel generator (DG) was terminated due to invalid failure caused by an oil leak in the lube oil cooler. In accordance with Reg. Guide 1.108, the following information is provided:

### Diesel Generator Unit Designation and Number:

Division II, 1EGS\*EG1B

### Cause of Failure:

The Division II DG was started at 1216 on 1/28/88 to perform its monthly surveillance test. A minor jacket water leak was noted by operators at the flanged joint on the inlet end of the lube oil cooler 1EGO\*E1B. After the DG was properly started and warm up was being performed, an additional leak began, involving lube oil from the same flanged joint as the minor jacket water leak.

Due to the possibility of lube oil leaking into the jacket water system, the operator terminated the test before the DG was loaded in order to preclude any operation which could damage the engine.

Inspection of the lube oil cooler indicated that the leak was caused by twisted packing. Further inspection revealed that no lube oil had entered the jacket water system. The leaking joint had a lantern ring which was drilled in four places and was designed to divert any leakage, whether water or oil, to the atmosphere.

Although the Surveillance Test Procedure (STP) was halted as a precautionary measure due to possible damage which could occur to the DG, inspection revealed that these possible damaging situations did not exist. Had the DG been required for emergency operation, it would have been possible to make up the amount of oil being lost by adding oil to the sump. Fire suppression systems would protect against the possibility of damage if any temporary accumulation of lube oil leakage on the DG room floor had become a combustion source. Since this was not a condition that would have prevented the DG from performing its intended function, this is considered an invalid test and an invalid failure in accordance with Regulatory Guide 1.108, Paragraph C.2.e.4.

### Corrective Action:

A prompt maintenance work order (PMWO) was issued to troubleshoot the cause of oil leakage and to perform corrective maintenance. Investigation of the lube oil cooler indicated that twisted packing was the cause of the lube oil leakage. This packing had been replaced during the first refueling outage (RF-1). Corrective action included installation of new Neoprene channel packing and new shell packing. Installation was performed under direction of an IMO Delaval vendor representative. To assure adequate

reassembly was performed, a 20 minute 60 psig air drop test on the shell side of the cooler was successfully performed. Subsequently, the required monthly surveillance test was successfully performed on 1/30/88 with no lube oil or jacket water leakage from lube oil cooler 1EGO\*E1B. In addition, an inspection of lube oil cooler 1EGO\*E1A showed no signs of lube oil or jacket water leakage.

Length of Time Unavailable: 2 days, 8 hours

Current Surveillance Test Interval: 31 days

Test Interval Conforms to Technical Specifications: Yes

Failures for Div II DG: 0 valid failures in the last 20 valid tests

4 valid failures in all 61 valid tests performed

Number of Valid Failures in Previous 100 Valid Tests of All DG at River Bend Station: 2