



GULF STATES UTILITIES COMPANY

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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 revised Special Report concerning a valid failure of the Division II Diesel Generator during a surveillance test at River Bend Station on 10/17/86. This revision is being submitted pursuant to River Bend Station Technical Specifications 4.8.1.1.3 and 6.9.2 to provide the results of further investigations.

Sincerely,

J. E. Booker
Manager-River Bend Oversight
River Bend Nuclear Group

JEB/TFP/AOF/^{AKS}DAS/ch

cc: U.S. Nuclear Regulatory Commission
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SPECIAL REPORT

At 1030 on 10/17/86 a valid failure occurred on the River Bend Station Division II Diesel Generator (DG) while performing surveillance testing. In accordance with Regulatory Guide 1.108, the following information is provided.

DIESEL GENERATOR UNIT DESIGNATION AND NUMBER: Div. II 1EGS*EG1B

CAUSE OF FAILURE:

The DG was started at 0920 and achieved full load at 0945. At approximately 1020 it was noted that the governor oil, as viewed in the sightglass, was foaming and therefore, the engine was shutdown prior to completing the one-hour run. Because it was determined that the engine was unable to continue its run until the water was removed from the governor (the engine was unstable at the time of shutdown) this is considered a valid failure. Possible sources of water were: 1. A tube leak in the governor cooler, or 2. Water splashed onto the governor housing during the replacement of the governor cooler return line. This replacement occurred on 10/16/86.

Further investigation showed that the cooler did not have a tube leak. The water which was splashed onto the governor housing could have migrated into the oil along a servo motor shaft or via the governor oil filler cover. The governor cooler return line was not sufficiently drained prior to replacement on 10/16/86. Therefore, the probable source of water was the replacement of the governor cooler return line.

CORRECTIVE ACTION:

The governor was drained, flushed, and refilled under the direction of a qualified service representative. The DG was successfully retested on 10/19/86 and returned to service on 10/20/86.

Further evaluation by Gulf States Utilities Design Engineering has concluded that no hardware modifications are necessary at this time. The servo motor shaft has a splash guard and seal where it enters the governor housing. The governor oil filler cover (flip up type) installed on the Division II DG is the correct cover for indoor installations. The Division II DG governor did not experience any water in the governor oil for over 350 hours of operation before the failure on 10/17/86, and for 135 hours of operation since that date. The Division I and II DG procedures provide for inspection of auxiliary systems for leaks. This assures early detection of a jacket water leak in the vicinity of the governor.

The Division I DG governor oil filler cover was inspected and found to be of a different type. The Division I cover is a weatherproof (radiator type) filler cover for outdoor installations. Modification Request (MR) 87-0108 has been initiated as a "Document Change Only" MR to assure that all future purchases of Woodward EGB-10B governor actuators or top covers require a weatherproof governor oil filler cover.

LENGTH OF TIME UNAVAILABLE: 3 days

CURRENT SURVEILLANCE INTERVAL: 7 days**

TEST INTERVAL CONFORMS TO TECHNICAL SPECIFICATIONS: Yes

NUMBER OF VALID FAILURES IN PREVIOUS 100* VALID TESTS OF ALL DIESEL GENERATORS AT RIVER BEND STATION: 6

*93 valid tests have been performed on all diesel generators at River Bend Station up through and including this test on 10/17/86.

**Surveillance interval at time of original report (11/18/86).