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SAGER, D.A. Florida Power & Light Co.
RECIP. NAME **RECIPIENT AFFILIATION**
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SUBJECT: Special rept: on 910116, troubleshooting revealed defective limit switch assembly on 2B2 governor of EDG. Switch assembly replaced & 2B EDG successfully retested. Sys engineer will track limit switch for each EDG.

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February 15, 1991

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10CFR50.36

U. S Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555


Gentlemen:

Re: St. Lucie Unit 2
Docket No. 50-389
Special Report
Date of Event: January 16, 1991
Emergency Diesel Generator Failure

The attached Special Report is being transmitted pursuant to the requirements of St. Lucie Unit 2 Technical Specification 4.8.1.1.3 and pursuant to Technical Specification 6.9.1. The report provides notification of a 2B Emergency Diesel Generator failure during post maintenance testing.

Should there be any questions on this information, please contact us.

Very truly yours,


D. A. Sager
Vice President
St. Lucie Plant

DAS:GRM:kw

DAS/PSL #357

Attachment

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

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NRC SPECIAL REPORT

DIESEL GENERATOR VALID FAILURE

At 1730 hours on January 16, 1991 the St. Lucie Unit 2 2B Emergency Diesel Generator (EDG) was idle started for post-maintenance testing following a preventative maintenance oil changeout. The 2B EDG was synchronized to the grid but could only be loaded to approximately 2000 KW. The 2B EDG was shutdown for investigation of the problem. Troubleshooting revealed a defective limit switch assembly in the 2B2 governor. The limit switch controls positioning of the governor speed setting. In the stand-by mode, the governor speed setting is at 450 RPM. The starting logic raises the engine speed to 900 RPM with a 125V DC motor. The limit switch controls the 125V DC motor. The defective limit switch was replaced with a new switch.

At 1921 hours on January 17, 1991, the 2B EDG was started for a surveillance run. The start time was 8.94 seconds. The EDG operated properly and the surveillance run was completed satisfactorily. The 2B EDG was declared back in service at 2110 hours on January 17, 1991.

In accordance with NRC Regulatory Guide 1.108 C.2.e.8, this event was evaluated to be a valid failure because the affected governor kept the EDG from fully loading and meeting its design basis criteria. In accordance with the Unit 2 Technical Specification 4.8.1.1.3, this event is being submitted as a valid failure of the 2B Emergency Diesel Generator.

Corrective Actions:

- 1) The defective limit switch assembly was replaced.
- 2) The 2B EDG was successfully retested.
- 3) The System Engineer will track failures of this limit switch for each EDG to verify that this corrective action is sufficient.

Failure Summary:

The failure of the 2B EDG was the third failure in the last 100 tests. In conformance with the St. Lucie Unit 2 Technical Specification Surveillance Requirement 4.8.1.1.2.a., Table 4.8-1 "Diesel Generator Test Schedule," the surveillance frequency remains at once per 31 days. This is the first failure of this limit switch on any of the EDGs at St. Lucie.