

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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 AUTH. NAME      AUTHOR AFFILIATION  
 SAGER, D.A.      Florida Power & Light Co.  
 RECIPIENT AFFILIATION

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SUBJECT: Special rept: on 920403, EDG 1B output breaker would not close during weekly operational check. Caused by failure of underfrequency permissive circuit relay. Failed relay replaced & EDG successfully started.

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P.O. Box 128, Ft. Pierce, FL 34954-0128

April 28, 1992

L-92-117  
10 CFR 50.36

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

Re: St. Lucie Unit 1  
Docket No. 50-335  
Special Report  
Date of Event: April 3, 1992  
1B Emergency Diesel Generator Failure

The attached Special Report is being transmitted pursuant to the requirements of St. Lucie Unit 1 Technical Specifications 4.8.1.1.3 and 6.9.2. This report provides notification that the 1B Emergency Diesel Generator was declared inoperable due to the 1B Emergency Diesel Generator output breaker failing to close.

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

Very truly yours,

D. A. Sager  
Vice President  
St. Lucie Plant

DAS/JJB/kw

Attachment

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

DAS/PSL #677-92

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NRC SPECIAL REPORT  
DIESEL GENERATOR VALID FAILURE

On 3 April 1992, at 0947, the St. Lucie Unit One 1B Emergency Diesel Generator (EDG) was started for the weekly operational check. The RCO attempted to close the 1B EDG output breaker but the breaker would not close. The 1B EDG was shutdown at 1017 and declared out of service. St Lucie Unit One was in Mode 1 at 100% Power and entered the 72 hr. action statement for Technical Specification 3.8.1.1. The 1B EDG was restarted for troubleshooting at 1325 and shutdown at 1400.

The problem was traced to the underfrequency permissive circuit relay. The underfrequency permissive circuit is designed to prevent the EDG output breaker from closing in the event of an underfrequency condition in the EDG. In accordance with the NRC Regulatory Guide 1.108.C.2.e.5, this event was evaluated as a valid failure.

Corrective Actions: The failed relay was replaced and at 1316 on 4 April 1992 the EDG was successfully started. After performing the operational check the 1B EDG was declared back in service at 1352. The 1B EDG was unavailable for 28 hrs.

Failure Summary: This is the second valid failure of the 1B EDG in the previous 20 valid tests. The 1B EDG has accumulated 42 valid tests since the implementation of Technical Specification 3.8.1.1 (July 1990). The current surveillance interval is once per seven days per Technical Specification 4.8.1.2.2.