



Public Service Electric and Gas Company P.O. Box 236 Hancocks Bridge, New Jersey 08038-0236

Nuclear Business Unit

JAN 02 1996

LR-1.95260

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Gentlemen:

**SPECIAL REPORT 95-06**  
**HOPE CREEK GENERATING STATION**  
**FACILITY OPERATING LICENSE NPF-57**  
**DOCKET NO. 50-354**

This Special Report is being submitted pursuant to the requirements of Hope Creek Technical Specification 4.8.1.1.3, due to the "C" Emergency Diesel Generator (EDG) failures on December 6 and 7, 1995. On December 6, 1995, the EDG was started to perform a monthly surveillance test. Approximately five minutes into the test, while the EDG was running unloaded, technicians noticed that a recorder used for the test was in the wrong mode and requested that the EDG be shutdown so the data could be recollected. When the operator attempted to secure the EDG, he noticed that the stop indication was illuminated, but all other indications showed that the EDG was still running (i.e., voltage, frequency, field current, etc.). Subsequently, the EDG was manually shutdown.

The initial cause of the failure was determined to be a faulty speed switch, which controls vital functions of the EDG (i.e., maintain jacket water temperature, enables cooling of the EDG, etc.). This condition would have ultimately resulted in a failure had the EDG been subsequently loaded. On December 7th, the speed switch was replaced and monthly surveillance test was run again. The "C" EDG again failed in the same manner as it had on December 6th. As a result of further investigation, it was determined that the cause of both of the "C" EDG failures was due to a faulty tachometer relay signal generator, which provides input signals to the speed switch. On December 8th, the tachometer speed signal generator was replaced. On December 9, 1995, the "C" EDG retested satisfactorily and was declared operable.

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The plant was shutdown for a refueling outage at the time of the test failures. These were the first and second failures of the "C" EDG in the last 100 valid tests. The current test frequency for the "C" EDG is weekly, in accordance with the guidance provided in Technical Specification Table 4.8.1.1.2-1, which requires weekly testing when there are two or more failures in the last 20 valid tests.

Should you have any questions or comments on this transmittal, do not hesitate to contact us.

Sincerely,



M. E. Reddemann  
General Manager -  
Hope Creek Operations

JPP/

C Distribution