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**DUKE POWER**

June 10, 1992

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

Subject: Catawba Nuclear Station, Unit 1  
Docket No. 50-413  
Special Report  
Cathodic Protection System Inoperable

Pursuant to Technical Specifications 3.8.1.1 ACTION statement "g" and 6.9.2, find attached a Special Report concerning the inoperability of the Cathodic Protection System for Catawba Unit 2. The system was declared inoperable on May 1, 1992 and remained inoperable for more than 10 days.

Very truly yours,

A handwritten signature in cursive script that reads "M.S. Tuckman".

M. S. Tuckman

CRL/SR61092.CAT

Attachment

xc: S. D. Ebnetter  
Regional Administrator, Region II

R. E. Martin, ONRR

W. T. Orders  
Senior Resident Inspector

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## SPECIAL REPORT

### CATAWBA NUCLEAR STATION UNIT 1

#### CATHODIC PROTECTION SYSTEM INOPERABLE

On May 1, 1992, Instrumentation and Electrical (IAE) technicians performed a routine surveillance on the Unit 1 Cathodic Protection System which determined that the voltage output from rectifier #10 was well below the acceptance criteria. The technicians then proceeded to the alternate test method, a milivolt drop test, which called for the rectifier to be turned off. The milivolt drop test did not meet the acceptance criteria. At this point, the Cathodic Protection System was declared inoperable because it could not meet the surveillance requirements.

The technicians discussed the surveillance results with the component engineer and concluded that the test equipment was faulty. New test equipment was made available from the Engineering Group on May 13, 1992. This new test equipment verified the inaccuracy of the station test equipment. The new test equipment determined that the rectifier was within the acceptance criteria as specified in the Technical Specifications. The Cathodic Protection System was declared operable on May 13, 1992.

The test equipment failure was due to a manufacturer deficiency in the connection between the test leads and the test probe. To prevent this problem from reoccurring, Catawba Nuclear Station test equipment has been modified to enhance the connection from the test lead to the test probe.