

DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

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WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

December 15, 1981

TELEPHONE: AREA 704
373-4083

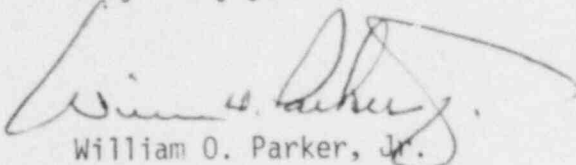
Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Re: Catawba Nuclear Station
Units 1 & 2
Docket Nos. 50-413 and -414/H

Dear Mr. O'Reilly:

Pursuant to 10 CFR 50.55e, please find attached Significant Deficiency Report SD-413, 414/81-29.

Very truly yours,



William O. Parker, Jr.

RWO/php
Attachment

cc: Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

NRC Resident Inspector
Catawba Nuclear Station

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CATAWBA NUCLEAR STATION

REPORT NUMBER: SD-413, 414/81-29

REPORT DATE: December 15, 1981

FACILITY: Catawba Nuclear Station, Units 1 & 2

IDENTIFICATION OF DEFICIENCIES:

Improper application of a Westinghouse type ECT current transformer, Part No. 7524A68G16, in the paralleling circuit of the static exciter voltage regulator system on the Catawba main diesel generators.

INITIAL REPORT:

On November 20, 1981, Mr. J. Bryant of NRC Region II, Atlanta, Georgia was notified of this deficiency by Mr. W. O. Henry, and Mr. W. J. Foley of Duke Power Company, Charlotte, NC 28242. This notification was in response to Mr. Steven G. Schumacher (Transamerica Delaval) letter dated October 30, 1981, to Mill Power Supply Company.

SUPPLIER AND/OR COMPONENT:

Portec, Inc. Electric Products Control Division; Highland, Illinois supplied these CT's to Transamerica Delaval. The CT's are Westinghouse Type ECT current transformers, Part No. 7524A68G16.

DESCRIPTION OF DEFICIENCY:

The deficiency consists of an improper application of a Westinghouse Type ECT current transformer, Part No. 7524A68G16, in the paralleling circuit of the static exciter voltage regulator system on the Catawba main diesel generators. As presently applied, this transformer will operate outside of its rated temperature range whenever the ambient temperature at its location in the generator control panel exceeds 30°C. The design ambient temperature where these current transformers are to be installed is 40°C.

ANALYSIS OF SAFETY IMPLICATION:

If the deficiency was not corrected a potential would exist for these current transformers to become thermally aged to end of life without this being detected. A failure of this current transformer could result in the Diesel Generating System being unable to perform its Class 1E function due to a line to ground fault, or by degrading adjacent 1E components.

CORRECTIVE ACTION:

In order to correct this deficiency, the Westinghouse current transformers will be replaced with current transformers that are designed for this application. This work will be accomplished under NCI #13448.