DUKE POWER COMPANY
P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

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May 31, 1984

Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

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

Dear Mr. O'Reilly:

Significant Deficiency Report No. 413-414/83-11, transmitted on September 27, 1983, stated that a resolution to correct the deficiency would be reached prior to fuel load for Unit 1. That resolution is described in the corrective action section of the attached Revised Significant Deficiency Report No. 413-414/83-11.

Very truly yours,

H.B. Tucker 1/1/85

Hal B. Tucker

LTP/php

Attachment

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

NRC Resident Inspector
Catawba Nuclear Station

Palmetto Alliance
2135½ Devine Street
Columbia, South Carolina 29205

INPO Records Center
Suite 1500
1100 Circle 75 Parkway
Atlanta, Georgia 30339

Mr. Robert Guild, Esq.
Attorney-at-Law
P. O. Box 12097
Charleston, South Carolina 29412





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CATAWBA NUCLEAR STATION

REVISED REPORT

REPORT NUMBER: SD 413-414/83-11

REPORT DATE: May 31, 1984

FACILTIY: Catawba Nuclear Station Units 1 and 2

IDENTIFICATION OF DEFICIENCY:

The Westinghouse NSSS Process Instrumentation and Control System NTC (Temperature Channel Test) cards utilize a mercury relay on the card which has experienced contact bounce during seismic testing. The deficiency was identified by I. E. Notice 83-38 dated June 13, 1983.

INITIAL REPORT:

On August 29, 1983, Virgil Brownlee of the NRC was notified of the deficiency by L. Coggins, J. Thomas, J. Smith, and C. Rolfe of Duke Power Company.

COMPONENT AND/OR SUPPLIER:

The NTC printed circuit cards were supplied by Westinghouse's Industry Electronics Division.

DESCRIPTION OF DEFICIENCY:

The NTC Temperature Channel test cards utilize a mercury relay on the card that may experience contact bounce during a seismic event. This intermittant contact bounce will result in signal saturation of the down stream NRA (RTD Amplifier) card in the T hot and T cold circuits of the 7300 Process Protection System. The saturation of the NRA card in plants utilizing non-filtered signals (which is applicable to Catawba) could delay initiation of over temperature-delta T and overpower-delta T trips.

ANALYSIS OF SAFETY DUPLICATIONS:

A possible delay could occur in the initiation of over temperature-delta T and overpower-delta T trips if required during a seismic event. Such a delay could affect the safety of the plant.

CORRECTIVE ACTION:

There are sixteen (16) cards in each unit that have the deficient relay installed. The contacts on each deficient relay are being jumpered per NCI 16997 and Nuclear Production NSM CN-1-0072. This is a permanent fix and resolves this deficiency.