

J. P. O'Reilly

DUKE POWER COMPANY

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24 JUL 25 July 28, 1984

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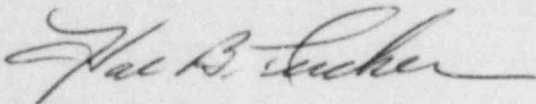
Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

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

Dear Mr. O'Reilly:

Pursuant to 10CFR 50.55 e, please find attached Significant Deficiency
Report No. 413-414/84-17.

Very truly yours,



Hal B. Tucker

LTP:slb

Attachment

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

NRC Resident Inspector
Catawba Nuclear Station

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REPORT NO: SD 413-414/84-17

REPORT DATE: July 18, 1984

FACILITY: Catawba Nuclear Station
Units 1 & 2

IDENTIFICATION OF DEFICIENCY:

Seismic design criteria was not applied to fire protection piping serving ESF Filters. Deficiency was identified 7/19/83.

INITIAL REPORT:

On June 28, 1984, A. Ignatonis, NRC Region II, Atlanta, Georgia, was notified of the deficiency by L. M. Coggins, R. D. Carroll, H. A. Smith, R. E. Conley, and T. L. Utterback of Duke Power Company, 422 South Church Street, Charlotte, North Carolina 28242.

COMPONENT AND/OR SUPPLIER:

Inadequate design criteria used by Duke Power Company.

DESCRIPTION OF DEFICIENCY:

System RF fire protection piping is provided for ESF filter units within the following ventilation systems:

<u>System</u>	<u>Area Serving</u>	<u>No. of Units</u>	<u>Location of Filter Units</u>
VA	Auxiliary Building Filtered Exhaust	4	Auxiliary Building
VE	Reactor Building Annulus Filtered Exhaust	4	Auxiliary Building
VF	Fuel Pool Filtered Exhaust	8	Fuel Pool Equipment Room and Auxiliary Building
VC	Control Room Filtered Supply	2	Control Room Area Equipment Room

System RF piping to the above ESF filter units was originally designed as Class G. During a seismic event failure of the piping to the filter unit could represent a by-pass of the carbon beds in excess of allowable by-pass criteria set forth in NRC Reg. Guide 1.52.

ANALYSIS OF SAFETY IMPLICATIONS:

The Radiological Design Review concerning this problem concluded the following:

1. Air leakage into the exhaust systems going to the Unit Vent would not exceed off-site dose rates of 10 CFR-100.

2. Air leakage into the Control Room system would exceed 10 CFR-50 Appendix A limits thereby creating a safety hazard to Control Room personnel.

CORRECTIVE ACTION

Fire protection spray water piping for all ESF filter units has been upgraded to Class F piping.

Design revisions have been completed for both Unit 1 and Unit 2. Construction has been completed for Unit 1. The construction for Unit 2 will be completed in accordance with the revised design. Full compliance has been achieved.