

DUKE POWER COMPANY

P.O. BOX 33189

CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

34 OCT 2 11:20
September 27, 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
Significant Deficiency 413-414/84-19

Dear Mr. O'Reilly:

Please find attached a final report on the subject Deficiency which was identified in my letter of July 27, 1984. All corrective action has been completed for the Unit 1 diesels.

Very truly yours,

Hal B. Tucker
Hal B. Tucker

LTP/mjf

Attachment

cc: Director
Office of Inspection and 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

Mr. Jesse L. Riley
Carolina Environmental Study Group
854 Henley Place
Charlotte, North Carolina 28207

8411190083 840927
PDR ADOCK 05000413
S PDR

OFFICIAL COPY

TE 27/11

Final Report
Catawba Nuclear Station

Report Number: SD 413-414/84-19

Report Date: September 27, 1984

Facility: Catawba Nuclear Station, Units 1&2

Identification of Deficiency: Two cast iron subcovers were found to have cracked in a pedestal where the intake rocker arm shaft is bolted to the subcover.

Initial Report: On June 23, 1984, Mr Virgil Brownlee of the NRC Region II, Atlanta, Georgia office, was notified of this deficiency by Mr L M Coggins, Mr J M Lines, Mr T L Utterback, and Mr R D Carroll of Duke Power Company, Charlotte, NC 28242.

Supplier and/or Component: Transamerica Delaval, Inc. of Oakland, California, manufactured and supplied the subcovers that are installed in the four Catawba diesels which are designated 1A, 1B, 2A and 2B.

Description of Deficiency: During an inspection, following an extended operational test of the Catawba diesel generator 1A, two cast iron subcovers were found to have cracks in the pedestal where the intake rocker arm shaft is bolted to the subcover. Prior to the extended operation test, another subcover was found to have a piece of this pedestal missing.

None of these cracks affected the diesel operability.

Preliminary studies indicate that the cracks are due to installation tolerance between the dowels, bushings, and the pedestal which lead to excessive interference.

Analysis of Safety Implication: Results of the failure analysis of the cracked subcovers confirm the two cracked subcovers resulted from a misaligned dowel pin in one case and an oversized dowel pin in a second case. In addition, no evidence of fatigue cracking was observed in either case.

Neither situation would, nor did, affect the diesels operability or power output; therefore, this item is evaluated not to be reportable.

Correstive Action: The cracked subcovers have been replaced and the installation procedures have been revised to reduce the future possibility of excessive interferences or misalignments.

All of the unit 1 subcovers have been inspected for additional cracks, and the unit 2 subcovers will be inspected for cracks by August, 1985.

No further action is required regarding this matter.