

DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

April 15, 1982

TELEPHONE: AREA 704
373-4083

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

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

Dear Mr. O'Reilly:

Pursuant to 10 CFR 50.55e, please find attached Significant Deficiency
Report SD 413-414/82-06.

Very truly yours,

William O. Parker, Jr.

William O. Parker, Jr. *By [Signature]*

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Attachment

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

Mr. P. K. Van Doorn
NRC Resident Inspector
Catawba Nuclear Station

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CATAWBA NUCLEAR STATION

REPORT NO: SD 413-414/82-06

REPORT DATE: April 15, 1982

FACILITY: Catawba Nuclear Station - Units 1 and 2

IDENTIFICATION OF DEFICIENCY

Undersized Socket Welds; Identified 2/10/82; QA Serial No. CA-82-15

INITIAL REPORT

On March 1, 1982, Mr. A. Ignatonis, NRC Region II, Atlanta, Georgia, was notified of the deficiency by Messrs. W. O. Henry, R. L. Williams, and S. S. Lefler of Duke Power Company, Charlotte, NC.

DESCRIPTION OF DEFICIENCY

In order to verify strict compliance to Code requirements for fabrication and inspection, a sample of 170 socket welds were reinspected. Of these 170 welds, 14 were found to be undersized by up to 1/32 inch. These welds are not in strict compliance with the requirements of ASME Section III, Figure N(X)-4427.1 or ANSI B31.1 Figure 127.4.4C, as applicable.

ANALYSIS OF SAFETY IMPLICATIONS

These socket welds are located in various nuclear safety related piping systems at Catawba. The primary impact of the undersized welds is the reduction of safety factors built into Code requirements.

CORRECTIVE ACTION

Corrective action taken to date is as follows:

1. Required all weld process control issued to the field to show leg size of fillet welds.
2. Appropriate site personnel have been trained in the requirements of fillet weld size.
3. Required reinspection of approximately 12,500 socket welds. Results to date are as follows:
 - a. 9128 welds have been reinspected, repaired as necessary, and accepted.
 - b. 3402 welds remain which require inspection, repair, or evaluation by Design Engineering.

Procedure revisions and personnel training are complete. The reinspection, repair, and Design Engineering evaluation of results will be completed by April 1, 1983.