

DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

June 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  
Unit 1  
Docket No. 50-413

Dear Mr. O'Reilly:

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

Very truly yours,

  
William O. Parker, Jr.

RWO/djs  
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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Duke Power Company  
Catawba Nuclear Station

Report No.: SD 413/81-10

Report Date: June 15, 1981

Facility: Catawba Nuclear Station, Unit 1

Identification of Deficiency: Restraint Number, 1-A-NI-4037, was installed and inspected as a y-directional restraint rather than a z-directional restraint as shown on design documents.

Description of Deficiency: In the use of typical sketches as specified on design drawings (isometrics), Restraint 1-A-NI-4037 was orientated incorrectly. Site Technical Support personnel incorrectly specified the orientation in the process control package. Site craft installed the restraint as shown in the process control package. Quality Control inspected the restraint per the information contained in the package. As a result, it is possible that the NI system could be overstressed with restraint 1-A-NI-4037 installed as stated.

Analysis of Safety Impact: Reanalysis of Restraint 1-A-NI-4037, as installed, by Duke Design Engineering, has shown that the piping would have been overstressed during operation had the deficiency not been discovered.

Corrective Action:

- (1) Restraint 1-A-NI-4037 will be removed and installed as a z-directional restraint.
- (2) The information contained on isometrics pertaining to orientation of support/restraints that involve typical sketches will be reviewed and clarified as necessary.
- (3) Personnel currently assigned craftcheck and precheck functions, and those who prepare and review component support process control packages, shall receive formal training in determining proper orientation of support/restraints that involve typical sketches.
- (4) Personnel assigned to inspect support/restraints, will receive formal training in how to inspect orientation of support/restraints involving typical sketches.
- (5) Construction Surveillance Checklist CEI-2 will be updated to include a review of orientation of support/restraints in the process control package preparation section. Inspection instructions, CN-1, will be reviewed and revised as necessary to update instructions for support orientation.

Corrective Action Completion Dates:

<u>Item</u>	<u>Completion Date</u>
(1) Re-install Restraint I-A-NI-4037 as a z-directional restraint.	In accordance with Construction schedule.
(2) Design Engineering will review and clarify isometrics with typical sketches specified.	July 3, 1981
(3) Formal training for Construction personnel, highlighting orientation of support/restraint involving typical sketches.	July 15, 1981
(4) Formal training for Quality Control inspectors, highlighting orientation of support/restraint involving typical sketches.	July 15, 1981
(5) Quality Assurance to update Construction Surveillance Checklist CEI-2 and inspection instructions CN-1.	July 15, 1981