

DUKE POWER COMPANY

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

USNRC REGION II  
ATLANTA, GEORGIA

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

February 18, 1982

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TELEPHONE AREA 704  
473-4083

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 413-414/82-01.

Very truly yours,

*William O. Parker, Jr.*  
William O. Parker, Jr.

RWO/php  
Attachment

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

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

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CATAWBA NUCLEAR STATION

Report Number: SD 413-414/82-01

Report Date: February 18, 1982

Facility: Catawba Nuclear Station, Units 1 and 2.

Identification of Deficiency:

Valves 1NI54A, 1NI76A, 1RN74A Limitorque Operator (EMO) lubricant leakage from gear box into limit switch compartment.

Initial Report:

On January 21, 1982, Mr. Bryant of NRC Region II, Atlanta, Georgia was notified of this deficiency by Mr. W. O. Henry, Mr. J. K. Berry and Mr. H. E. Edwards of Duke Power Company, Charlotte, North Carolina.

Supplier and/or Components:

The valves and operators affected are as follow:

<u>Valve Number</u>	<u>Application</u>	<u>Limitorque Model #</u>
1NI54A, 1NI76A	UHI Accumulator Tank Discharge Isolation Valve in Safety Injection System. Valve is 10" Gate Item 9J-209	SBD-3
1RN47A	Nuclear Service Water Crossover Isolation Valve. Valve is 20" butterfly item 2B-270	SMB-00-10

Description of Deficiency:

As a result of McGuire Unit 2 50.55e report SD 370/81-08 (10/21/81), inspection of Catawba Unit 1 and 2 Limitorque Operators was initiated. Construction personnel discovered lubricant leakage into the Limit Switch Compartment in the above EMO's. Limitorque Operators on valve 1RN47A had been stored in an improper orientation for an extended period, and 1NI54A had been installed in improper orientations and had not been operated for an extended period.

Analysis of Safety Implications:

The affected valves are safety related, active valves with Class 1E EMOs. The lubricant is not compatible with components and wiring located in these

compartments and subsequent degradation of these components could result in loss of safety related valve function.

Corrective Action:

The following corrective actions have been or are being completed:

1. Electrical compartments in the three EMOs will be cleaned of lubricant. Damaged wiring and components will be replaced.
2. Storage procedures have been changed to assure that Limitorques are not stored in positions susceptible to leakage.
3. The inspection identified twenty active valves with Limitorque EMOs currently installed in an improper orientation. The resolution to these problems will be made by March 1, 1982 via NCI 13808. Resolutions include rotation of EMO on valve, reorientation and/or relocation of valve in piping to obtain proper EMO orientation. Any subsequent lubricant leakage that may occur during NCI 13808 problem resolution and inspection will be resolved as noted in Item 1.
4. Erection Tolerance, Drawing Number CN-1680-48 has been revised to assure proper orientation of Limitorques in future Catawba designs.

Cherokee Nuclear Station Design Documents identified in Items 2 and 4 are currently in force and should preclude similar occurrence at Cherokee.