

DUKE POWER COMPANY

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HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

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July 8, 1984

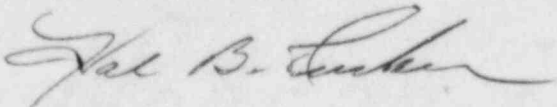
Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

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

Dear Mr. O'Reilly:

Pursuant to 10 CFR 50.55e, please find attached Significant Deficiency Report
No. SD 413-414/84-15.

Very truly yours,



Hal B. Tucker

LTP/php

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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DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
LIMITORQUE T-DRAINS
SIGNIFICANT DEFICIENCY

REPORT NUMBER: SD 413-414/84-15

REPORT DATE: July 6, 1984

FACILITY: Catawba Nuclear Station, Units 1 and 2

IDENTIFICATION OF DEFICIENCY: T-Drains have not been field installed, as required by the vendor, on certain models of Limitorque electric motor valve operators. Deficiency was identified May 16, 1984.

INITIAL REPORT: On June 8, 1984, K. Landis, NRC Region II, Atlanta, Georgia, was notified of subject deficiency by L. M. Coggins, R. D. Carroll and P. R. Herran of Duke Power Company, 422 So. Church Street, Charlotte, NC 28242.

COMPONENT AND SUPPLIER: Various Limitorque Model SMB, SB and SBD "Containment Chamber" actuators located in the Containment Vessel and Doghouse. A list of tag numbers of all actuators being reported is attached. Supplier was Limitorque Corporation, 5114 Woodall Road, Lynchburg, Virginia 11318.

DESCRIPTION OF DEFICIENCY: T-drains have not been installed in accordance with vendor requirements. T-Drains are required to maintain the Nuclear Qualification of the operators. The T-Drains should be installed in place of the two lowest (existing) pipe plugs in the motor end bells. The T-drains are shipped with a tag noting instructions for installation. Limitorque Nuclear Qualification Report B0058 also briefly states T-Drain installation requirements.

ANALYSIS OF SAFETY IMPLICATIONS: T-Drains should be installed for the actuators to match the configuration used in the Limitorque LOCA Chamber Test (Reference Limitorque Test Report 600456). Limitorque operators are not designed to be completely sealed from the DBE (LOCA or Main Steam Line Break) environment. In the event of steam entrapment in the motor compartment, the T-Drains would allow drainage of condensate, thus preventing saturation of the motor insulation and short circuiting of the motor leading to operator failure.

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The subject operators have numerous post-DBE required safety functions. In general, failure of one or more of the operators on the attached list could lead to loss of Reactor Coolant System Pressure Boundary, Containment Isolation and/or ability to proceed to Cold Shutdown.

CORRECTIVE ACTION:

T-Drains are being procured and will be installed prior to criticality on Unit 1 and prior to fuel load on Unit 2.

CATAWBA NUCLEAR STATION
LIMITORQUE T-DRAIN REPORTABLE ITEM

| <u>CONTAINMENT</u> | <u>VESSEL</u> | <u>ACTUATORS</u> |
|--------------------|---------------|------------------|
| IKC345A | 1NM072B | 2NI065B 2NM217B |
| IKC364B | 1NM078B | 2NI076A 2NM220B |
| IKC394A | 1NM081B | 2NI088B |
| IKC413B | 1NM187A | 2NI095A |
| IKC429B | 1NM190A | 2NI122B |
| INC031B | 1NM197B | 2NI153A |
| INC033A | 1NM200B | 2NI154B |
| INC035B | 1NM207A | 2NI266A |
| INC054A | 1NM210A | 2NI267B |
| INC250A | 1NM217B | 2NI438A |
| INC251B | 1NM220B | 2NI439B |
| INC252B | 1NV037A | 2NM003A |
| INC253A | 1VX001A | 2NM006B |
| INI054A | 1VX002B | 2NM022A |
| INI065B | 1WL450A | 2NM025A |
| INI076A | 2KC345A | 2NM072B |
| INI088A | 2KC364B | 2NM075B |
| INI095A | 2KC394A | 2NM078B |
| INI122B | 2KC413B | 2NM081B |
| INI153A | 2KC429B | 2NM187A |
| INI154B | 2NC031B | 2VX001A |
| INI266A | 2NC033B | 2VX002B |
| INI267A | 2NC035B | 2WL450A |
| INI438A | 2NC054A | 2NM190A |
| INI439B | 2NC250A | 2NM197B |
| INM003A | 2NC251B | 2NM200B |
| INM006A | 2NC252B | 2NM207A |
| INM022A | 2NC253A | 2NM210A |
| INM025B | 2NI054A | 2NM217B |

CATAWBA NUCLEAR STATION
LIMITORQUE T-DRAIN REPORTABLE ITEM

DOG HOUSE ACTUATORS

1SV025
1SV026
1SV027
1SV028
2SV025
2SV026
2SV027
2SV028