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DUKE POWER

March 20, 1991

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Subject: McGuire Nuclear Station
Docket Nos. 50-369, 370
Inspection Report No. 369, 370/91-01
Reply to a Notice of Violation

Gentlemen:

Pursuant to 10CFR 2.201, please find attached Duke Power Company's response to Violation 369, 370/91-01-03 for McGuire Nuclear Station.

Should there be any questions concerning this matter, contact L.J. Rudy at (704) 373-3413.

Very truly yours,

M. S. Tuckman

M.S. Tuckman

LJR/s

Attachment

xc (W/Attachment):
Mr. S.D. Ebneter
Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta St., NW, Suite 2900
Atlanta, Georgia 30323

Mr. T.A. Reed
U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
One White Flint North, Mail Stop 9H3
Washington, D.C. 20555

Mr. P.K. VanDoorn
NRC Senior Resident Inspector
McGuire Nuclear Station

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MCGUIRE NUCLEAR STATION
RESPONSE TO NOTICE OF VIOLATION

Violation 369, 370/91-01-03

10CFR 50, Appendix B, Criterion XVI, states, in part, that measures shall be established to assure that conditions adverse to quality, such as failures, malfunctions, deficiencies, deviati[illegible] defective material and equipment, and nonconformances are promptly [illegible]ified and corrected.

Contrary to the above, measures were not adequate to assure prompt corrective action was taken in the correction of generic fuse installation problems originally identified in March 1989. Other cases of incorrectly installed fuses had been identified by the licensee since March 1989, but corrective action had not been initiated for any generic cases as of February 2, 1991.

This is a Severity Level IV (Supplement I) violation.

Response to Violation

1. Reason for violation:

In March 1989, a Problem Investigation Report (PIR) was written which identified that incorrect fuse type and sizes were installed in panel 2SMTC-1. This PIR did not identify any generic problems with the installation and sizing of fuses. In February 1990, another PIR was initiated when additional fuse concerns were identified by Instrumentation and Electrical (IAE) personnel. Once again it was decided there were not generic concerns raised by this PIR. In May 1990, another PIR was initiated when it was discovered that the sequence to verify all fuses within each ATC cabinet covered by the March 1989 PIR had been omitted. It was felt that the corrective actions for the first two PIR's would take care of the generic concerns and this PIR was closed. In January 1991, a Self Initiated Technical Audit (SITA) was performed on the electrical distribution system by an outside vendor. During this audit generic concerns were once again raised concerning fuses. At this time subsequent investigation showed that the corrective actions for the previous PIR's had failed to adequately address the generic problem with fuses.

A review showed a total of 25 cabinets were inspected which represented approximately 9% of the total cabinets installed. Based on this review, McGuire continued to inspect the fuse cabinets as the fuses were scheduled to be replaced. At the time of the SITA it was determined that the fuse problem was greater than previously had been determined and McGuire decided to accelerate the inspections to pursue a complete "as built" inspection of both safety and non-safety related cabinets.

2. Corrective actions taken and results achieved:

Station MES performed an evaluation to determine to what extent the generic issue of fuse installation had been addressed. The evaluation showed that a complete review of all cabinets with fuses had not been performed. McGuire MES, IAE and site Design Engineering have developed a program to inspect all cabinets containing fuses. Procedure IP/0/A/3190/03, MCC and Panel Board Preventive Maintenance, has been revised to include steps to check installed fuses against Bills of Materials. This check will be done as part of all cabinet preventive maintenance in the future.

3. Corrective actions to be taken to avoid further violations:

McGuire MES and IAE along with site Design Engineering began a program on February 15, 1991 to inspect all safety and non-safety related electrical cabinets containing fuses. As built conditions will be compared against Bills of Materials. Any problems or concerns found during this inspection will be evaluated and corrective actions will be taken during the inspection whenever possible.

4. Date when full compliance will be achieved:

McGuire will complete the inspection of the cabinets by the completion of the Unit 2 End of Cycle 7 outage. A schedule for the completion of any remaining corrective actions will be developed at the end of the inspection.