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**DUKE POWER**

May 1, 1996

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

Subject: McGuire Nuclear Station, Units 1 and 2  
Docket Nos. 50-369 and 50-370  
NRC Inspection Report No. 50-369, 370/96-01  
Violation 50-369/96-01-01  
Reply to a Notice of Violation

Gentlemen:

Enclosed is a response to a Notice of Violation dated April 2, 1996 concerning an inadequate evaluation resulting in a significant component cooling water system transient during testing.

Should there be any questions concerning this response, contact Randy Cross at (704) 875-4179.

Very Truly Yours,

  
T. C. McMeekin

Attachment

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U. S. Nuclear Regulatory Commission  
May 1, 1996

xc: (w/attachment)

Mr. S. D. Ebner  
Regional Administrator, Region II  
U. S. Nuclear Regulatory Commission  
101 Marietta St., NW, Suite 2900  
Atlanta, Georgia 30323

Mr. George Maxwell  
Senior Resident Inspector  
McGuire Nuclear Station

Mr. Victor Nerses  
U. S. Nuclear Regulatory Commission  
Office of Nuclear Reactor Regulation  
One White Flint North, Mail Stop 9H3  
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Reply to a Notice of Violation**

Violation 50-369/96-01-01

10 CFR 50 Appendix B Criterion III states in part that design changes, including field changes, shall be subject to design control measures commensurate with those applied to the original design.

Contrary to the above, on February 3, 1996 the licensee failed to adequately evaluate the cumulative effects of a design change and abnormal system alignment during Unit 1 component cooling water system slave relay testing. This resulted in a significant component cooling water system transient. As a result of the transient, cooling water was lost to the 1A reactor coolant pump upper motor bearing oil cooler. Operators were required to manually trip the reactor.

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

Reply to Violation 50-369/96-01-01

1. Reason for the violation:

The reason for the violation is Inappropriate Action. Procedure PT/1/A/4200/28A, Train A Slave Relay Test, was not revised to ensure that a flow path through open valves 1KC-50A and 1KC-56A was blocked during slave relay testing. During a review of upcoming testing on the KC system, Engineering and Operations personnel failed to anticipate or consider the potential for a transient being created by opening valves 1KC-50A and 1KC-56A during slave relay testing. The operating (design) change of one versus two KC pumps was not a factor in this transient/trip. An engineering analysis shows that the transient is worsened with two pumps operating versus one pump. The root cause of this event is failure to evaluate this testing alignment against the abnormal system alignment with valve 1KC-1A closed.

2. Corrective steps that have been taken and the results achieved:

System Engineering supervision discussed the inadequacy of the evaluation with the Engineering personnel involved and stressed the importance of performing comprehensive evaluations on the potential impacts of system changes.

No similar events have occurred since implementation of these corrective actions.

3. Corrective steps that will be taken to avoid further violations:

- a) A reading package describing the event will be provided to all System Engineering personnel. This corrective action will be completed by October 1, 1996.
- b) The current procedure PT/1/A/4200/28A, Train A Slave Relay Test, is adequate for normal system alignment. System Engineering personnel will review the procedure and identify any enhancements needed to address abnormal system configurations. This corrective action will be completed by July 1, 1996.

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- c) A reading package describing the event will be provided to all licensed operators. This corrective action will be completed by June 15, 1996.

4. Date when full compliance will be achieved:

McGuire Nuclear Station is now in full compliance.