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DUKE POWER

September 30, 1992

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

Subject: McGuire Nuclear Station, Units 1 and 2
Docket Nos. 50-369 and 50-370
NRC Bulletin No. 92-01, Supplement 1
Failure of Thermo-Lag 330 Fire Barrier System to
Perform its Specified Fire Endurance Function

Dear Sir;

Supplement 1 to NRC Bulletin 92-01 was received August 31, 1992. Attached, please find the response for McGuire Nuclear Station. There is limited use of the Thermo-Lag 330 fire barrier system protecting safe shutdown equipment at McGuire. The attached response discusses the actions that we have taken as a result of the supplement to the bulletin.

Please contact Paul Guill at (704) 875-4002, if you have any questions regarding this issue.

I declare under penalties of perjury that the statements set forth herein are true and correct to the best of my knowledge.

Very truly yours,

Ted C. McMeekin

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xc: S. D. Ebnetter
Regional Administrator, Region II

P. K. Van Doorn
Senior Resident Inspector, McGuire

T. A. Reed, Project Manager
ONRR

ATTACHMENT

DUKE POWER COMPANY
MCGUIRE NUCLEAR STATION
RESPONSE TO NRC BULLETIN 92-01, SUPPLEMENT 1

NRC REQUESTED ACTION 1.

For those plants that use either 1- or 3- hour pre-formed Thermo-Lag 330 panels and conduit shapes, identify the areas of the plant which have Thermo-Lag 330 fire barrier material installed and determine the plant areas which use this material for the protection and separation of the safe shutdown capability.

DUKE'S RESPONSE TO REQUESTED ACTION 1.

Thermo-Lag 330 panels are utilized in three areas at McGuire Nuclear Station. They are as follows:

- 1) Auxiliary Building Unit 1 Pipe Chase (elevation 716+0);
- 2, Unit 1 Train "B" Switchgear Room (elevation 733+0); and
- 3) Unit 2 Motor Driven Auxiliary Feedwater Pump Room (elevation 716+0).

The following is a brief discussion of the equipment that is being protected within each of the above identified areas:

(1) Auxiliary Building Unit 1 Pipe Chase

Motor operated valves (MOV) 1CA161C and 1CA162C and their corresponding supply cables located in this area. These DC MOVs are associated with the Standby Shutdown System (SSS) and are powered by the SSS batteries.

(2) Unit 2 Motor Driven Auxiliary Feedwater Pump Room

This area houses the Unit 2 valves (2CA161C and 2CA162C) which equate to the above Unit 1 components. The MOVs are the only components in this area that are protected by Thermo-Lag 330. The supply cables for the MOVs are protected by another fire resistant material.

(3) Unit 1 Train "B" Switchgear Room

Train "A" cables (11LE- 679, -680, and -702) are routed through this area. The cables are enclosed by Thermo-Lag 330 panels. These cables supply instrument indication to the SSS.

NRC REQUESTED ACTION 2.

In those plant areas in which Thermo-Lag fire barriers are used in raceways, walls, ceilings, equipment enclosures, or other areas to protect cable trays, conduits, or separate redundant safe shutdown functions, the licensee should implement, in accordance with plant procedures, the appropriate compensatory measures, such as fire watches, consistent with those which would be implemented by either the plant Technical Specifications or the operating license for an inoperable fire barrier. These compensatory measures should remain in place until the licensee can declare the fire barriers operable on the basis of applicable tests which demonstrate successful 1- or 3-hour barrier performance.

DUKE'S RESPONSE TO NRC REQUESTED ACTION 2.

Based on a review of Supplement 1 to Bulletin 92-01, the fire barriers which utilize Thermo-Lag 330 were declared inoperable. As specified by plant administrative procedures, hourly fire patrols were established for the fire barriers in question within the Unit 2 Motor Driven Auxiliary Feedwater Room and the Unit 1 B train Switchgear Room. A continuous fire watch was initially posted at the Unit 1 Mechanical Pipe chase. Upon verifying that the Unit 1 pipe chase area was equipped with appropriate fire detection capabilities, the continuous fire watch for the Unit 1 pipe chase area was changed to an hourly fire patrol.

The total application of Thermo-Lag 330 as a fire barrier material protecting safe shutdown equipment at McGuire Nuclear Station is less than 500 square feet. Currently, investigations are underway to either identify a suitable substitute material for the Thermo-Lag 330 material or determine what enhancements, if any, that are needed to the installed configuration to ensure that these fire barriers meet appropriate regulatory requirements and acceptance criteria. Until then, hourly fire patrols for the above identified three areas will continue to be performed.