Entergy
Operations

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0CAN099210

U. S. Nuclear Regulatory Commission
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Subject: Arkansas Nuclear One - Units 1 and 2
Docket Nos. 50-313 & 50-368
License Nos. DPR-51 & NPF-6
Response to NRC Bulletin 92-01, Supplement 1
"Failure of Thermo-Lag 330 Fire Barrier System
to Perform its Specified Fire Endurance Function"

Gentlemen:

On June 24, 1992, the NRC Staff issued NRC Bulletin 92-01, "Failure of Thermo-Lag 330 Fire Barrier System to Maintain Cabling in Wide Cable Trays and Small Conduits Free From Fire Damage". This bulletin was issued to notify licensees of failures in fire endurance testing associated with the Thermo-Lag 330 fire barrier system that is installed to protect safe shutdown capability. As stated in the bulletin, the NRC determined that the 1- and 3-hour pre-formed assemblies installed on small conduit and wide cable trays do not provide the level of safety as required by NRC requirements.

All holders of operating licenses for nuclear power reactors, immediately upon receipt, were requested by the bulletin to identify the areas of the plants which have Thermo-Lag 330 fire barrier material installed and implement the appropriate compensatory measures for an inoperable fire barrier for those plant areas in which Thermo-Lag fire barriers are used to protect wide cable trays, small conduits, or both. The bulletin also requested a written notification stating if Thermo-Lag 330 fire barriers had been installed and if the other actions required by the bulletin had been implemented. In letter dated July 24, 1992 (0CAN079203), Entergy Operations provided the response to the bulletin for Arkansas Nuclear One, Units 1 and 2 (ANO-1&2).

On August 28, 1992, the NRC issued Supplement 1 to Bulletin 92-01, "Failure of Thermo-Lag 330 Fire Barrier System to Perform Its Specified Fire Endurance Function." This supplement was issued to notify licensees of additional apparent failures in fire endurance testing associated with the Thermo-Lag 330 fire barrier system. The actions requested by the supplement are essentially the same as those listed in the original bulletin; however, the scope has been expanded to include all sizes of conduits and cable trays, as well as fire barrier walls, ceilings, and equipment enclosures.

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The purpose of this submittal is to provide Entergy Operations' response to Bulletin 92-01, Supplement 1 for ANO-1&2.

As was discussed in the July 24, 1992, response to the original bulletin, the only application of the Thermo-Lag 330 fire barrier system at ANO is in the ANO-2 service water pump pits. This fire barrier system has not been installed in ANO-1.

The service water pump pits are located in the Intake Structure below elevation 354'. The barriers are pre-formed conduit shapes and panels on two 4-inch conduits. These conduits are routed along the top of the pits to the "A" and "C" service water pumps. The conduits contain power cables for the pumps. In accordance with Safety Analysis Report requirements for inoperable fire barriers, ANO verified the operability of the fire detectors on at least one side of the affected barriers and posted a roving 1-hour fire watch to monitor the service water pump pits.

If the ANO installed Thermo-Lag fire barriers are determined to be a concern, the fire barrier configuration will either be qualified by third-party testing, engineering evaluations, or replaced with appropriate qualified material. Until the barriers are qualified or replaced, the 1-hour roving fire watch will remain in effect to monitor the service water pump pits.

In accordance with the requirements of 10CFR50.54(f), this letter is being provided under oath. Should you have any questions regarding our response to this issue, please contact me.

Very truly yours,

James J. Fisicaro

James J. Fisicaro
Director, Licensing

JJF/JJD/sjf

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STATE OF ARKANSAS)
) SS
COUNTY OF LOGAN)

I, James J. Fisicaro, being duly sworn, subscribe to and say that I am Director, Licensing at ANO, that I have full authority to execute this oath; that I have read the document numbered 0CAN099210 and know the contents thereof; and that to the best of my knowledge, information and belief the statements in it are true.

James J. Fisicaro
James J. Fisicaro

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for the County and State above named, this 29th day of September, 1992.

Notary Public

My Commission Expires:

May 11, 2000