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April 10, 1996

1CAN049604

U. S. Nuclear Regulatory Commission Document Control Desk Mail Station P1-137 Washington, DC 20555

Subject: Arkansas Nuclear One - Unit 1 Docket No. 50-313 License No. DPR-51 Licensee Event Report 50-313/96-003-00

Gentlemen:

In accordance with 10CFR50.73(a)(2)(i)(B), enclosed is the subject report concerning charcoal filter testing.

Very truly yours,

Dwight C. Mims Director, Nuclear Safety

DCM/rhs

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 cc: Mr. Leonard J. Callan Regional Administrator
U. S. Nuclear Regulatory Commission Region IV
611 Ryan Plaza Drive, Suite 400 Arlington, TX 76011-8064

> Institute of Nuclear Power Operations 700 Galleria Parkway Atlanta, GA 30339-5957

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received on March 15, 2VSF-9 was declared operable, and the action statement was exited. The root cause of this event was a misinterpretation of the requirements necessary to achieve TS compliance. It was believed that meeting the intent of the surveillance was sufficient to constitute compliance. Procedures were revised to require both fan/filtration units to be tested to the requirements of both units' TS.

NRC FORM 366A U.S. (5-92)	U.S. NUCLEAR REGULATORY COMMISSION				APPROVED BY DMB NO. 3150-0104 EXPIRES 5/31/95					
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TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

A. Plant Status

At the time this condition was identified, Arkansas Nuclear One, Unit-1 (ANO-1) was operating at approximately 100 percent power. Reactor Coolant System (RCS)[AB] temperature was 579 degrees and pressure was 2155 psig.

B. Event Description

On March 13, 1996, it was identified by ANO personnel that the ANO-2 Control Room Ventilation/Filtration unit (2VSF-9), which is taken credit for in the ANO-1 Technical Specifications, was not tested to the literal requirements of the ANO-1 specifications.

The ANO-1 and ANO-2 Technical Specifications require that two independent circuits of the Control Room Emergency Air Conditioning and Isolation System (CREVS)[VI] be operable whenever reactor building integrity is required. Since both ANO units share a common control room, each unit credits the availability of the fan/filter unit of the other to meet the two circuit requirements of the specifications.

The operability requirements of the ANO-1 Technical Specifications stipulate, in part, that laboratory carbon sample analysis from the charcoal adsorber banks show >/=90 percent radioactive methyl iodide removal at a velocity within +/-20 percent of system design, 0.05 to 0.15 mg/cubic meter inlet iodide concentration, >/=95 percent relative humidity and >/=125 degrees Fahrenheit. The ANO-2 Technical Specifications require that the carbon sample analysis meet the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 2, March, 1978. This guidance defines a test requiring 99.825 percent efficiency at laboratory conditions of 70 percent relative humidity and 80 degrees Celsius.

The differences in the surveillance test requirements for the two units were evaluated in 1989. ANO concluded at that time that each filtration unit should be proven operable by testing it to its corresponding Technical Specifications requirements. In 1991, ANO submitted a Technical Specifications amendment request to the NRC to change the ANO-1 specification to match that of ANO-2 to provide consistency. However, in 1993, that request was withdrawn in order to revise it in response to NRC questions and to make it more reflective of the Improved Standard Technical Specifications. The amendment request was resubmitted in April, 1995.

In 1994, ANO began testing the ANO-1 fan/filtration unit (VSF-9) to the ANO-2 requirements while continuing to test it to the ANO-1 requirements. This action was taken to ensure that the unit met the more restrictive ANO-2 requirements (99.825 percent efficient). It was not believed that 2VSF-9 should be tested to the less restrictive ANO-1 specification.

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The March 1996, review identified that the ANO-2 surveillance test satisfies all of the testing requirements of the ANO-1 Technical Specifications with the exception of relative humidity. 2VSF-9 must meet higher efficiency requirements (99.825 percent) than the ANO-1 specification stipulates (90 percent); however, it is tested at 70 percent relative humidity, not 95 percent as required by the ANO-1 specification. Therefore, the ANO-2 surveillance does not meet the literal requirements of the ANO-1 Technical Specifications.

ANO-1 declared 2VSF-9 inoperable at 1808 on March 13 and entered the seven day action statement of Technical Specification 3.9.2. A charcoal sample was removed from 2VSF-9 and submitted for laboratory analysis. On March 15, laboratory analysis results were received documenting that the charcoal sample had tested to 99.87 percent efficient under the ANO-1 surveillance requirements. The fan/filtration unit was declared operable and the Technical Specifications action statement was exited at 1545 on March 15, 1996.

C. Root Cause

The root cause of this condition is attributed to a misinterpretation of the requirements necessary to achieve compliance with a Technical Specifications surveillance test. ANO believed that meeting the intent of the ANO-1 surveillance requirements by testing 2VSF-9 to the more restrictive ANO-2 requirements was sufficient to constitute compliance with the specification. However, ANO's current position is that both the intent and the literal wording of the specification must be met to achieve compliance.

D. Corrective Actions

Appropriate procedures were revised to require charcoal samples from each fan/filtration unit to be analyzed under the stipulated laboratory conditions of both the ANO-1 and 2 Technical Specifications.

A review of the ventilation/filtration system testing program will be conducted to ensure that no other Technical Specifications conflicts exist. This review will be completed by May 15, 1996.

E. Safety Significance

Failure to test the ANO-2 fan filtration unit to the less restrictive requirements of the ANO-1 Technical Specifications had no impact on the operability of the unit. Therefore, this condition is considered to be of no safety significance.

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F. Basis for Reportability

The ANO-2 fan/filtration unit, which is credited by the ANO-1 Technical Specifications, was not tested in accordance with the literal wording of the ANO-1 specification. Therefore, this condition is reportable pursuant to 10CFR50.73(a)(2)(i)(B) as operation prohibited by the plant's Technical Specifications.

G. Additional Information

A previous similar event in which ANO concluded that meeting the intent of a surveillance requirement constituted compliance with the specification was reported in LER 50-313/96-001-00.

Energy Industry Identification System (EIIS) codes are identified in the text as [XX].