



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

JUL - 2 1997

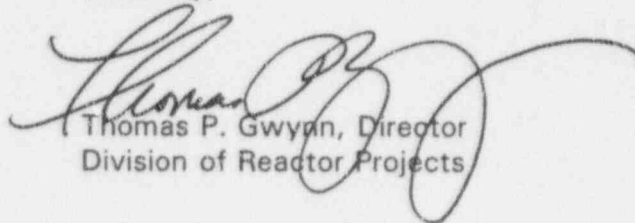
C. Randy Hutchinson, Vice President  
Operations  
Arkansas Nuclear One  
Entergy Operations, Inc.  
1448 S.R. 333  
Russellville, Arkansas 72801-0967

SUBJECT: NRC INSPECTION REPORT 50-313/97-01; 50-368/97-01

Dear Mr. Hutchinson:

Thank you for your letter of June 19, 1997, in response to our letter and Notice of Violation dated May 21, 1997, involving lack of adequate procedures to ensure that the shield lid drain line was free from obstruction prior to use on a dry fuel storage cask. We have reviewed your reply and find it responsive to the concerns raised in our Notice of Violation. We will review the implementation of your corrective actions during a future inspection to determine that full compliance has been achieved and will be maintained.

Sincerely,



Thomas P. Gwynn, Director  
Division of Reactor Projects

Docket Nos.: 50-313  
50-368  
License Nos.: DPR-51  
NPF-6

cc:  
Executive Vice President  
& Chief Operating Officer  
Entergy Operations, Inc.  
P.O. Box 31995  
Jackson, Mississippi 39286-1995



9707080150 970702  
PDR ADOCK 05000313  
Q PDR

Vice President  
Operations Support  
Entergy Operations, Inc.  
P.O. Box 31995  
Jackson, Mississippi 39286

Manager, Washington Nuclear Operations  
ABB Combustion Engineering Nuclear  
Power  
12300 Twinbrook Parkway, Suite 330  
Rockville, Maryland 20852

County Judge of Pope County  
Pope County Courthouse  
Russellville, Arkansas 72801

Winston & Strawn  
1400 L Street, N.W.  
Washington, D.C. 20005-3502

David D. Snellings, Jr., Director  
Division of Radiation Control and  
Emergency Management  
Arkansas Department of Health  
4815 West Markham Street, Mail Slot 30  
Little Rock, Arkansas 72205-3867

Manager  
Rockville Nuclear Licensing  
Framatome Technologies  
1700 Rockville Pike, Suite 525  
Rockville, Maryland 20852

JUL - 2 1997

bcc to DCD (IE01)

bcc distrib. by RIV:

Regional Administrator

DRP Director

Branch Chief (DRP/C)

Project Engineer (DRP/C)

Branch Chief (DRP\TSS)

Resident Inspector

MIS System

RIV File

DRS-PSB

DOCUMENT NAME: R:\\_ANO\AN701AK.KMK

To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

RIV:DRP/C	DNMS	C:DRP/C	C	D:DRP		
BASmallbridge:df	DBSpitzberg	EECollins	Arfor	TPGwynn		
7/2/97	7/2/97	7/2/97		7/2/97		

OFFICIAL RECORD COPY

JUL - 2 1997

bcc to DCD (IE01)

bcc distrib. by RIV:

Regional Administrator

DRP Director

Branch Chief (DRP/C)

Project Engineer (DRP/C)

Branch Chief (DRP\TSS)

Resident Inspector

MIS System

RIV File

DRS-PSB

DOCUMENT NAME: R:\\_ANO\AN701AK.KMK

To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

RIV:DRP/C	DNMS	C:DRP/C	C	D:DRP		
BASmaldridge:df	DBSpitzberg	EECollins	Arch	TPGwynn	ON	
7/2/97	7/2/97	7/2/97		7/2/97		

OFFICIAL RECORD COPY



**ENTERGY**

Entergy Operations, Inc.

1448 SR 313

Fayetteville, AR 72701

Tel 501 858-5000

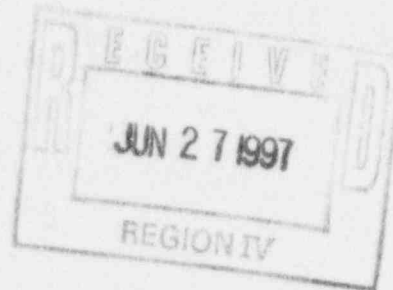
10CFR2.201

June 19, 1997

2CAN069712

U. S. Nuclear Regulatory Commission  
Document Control Desk, OP1-17  
Washington, DC 20555

Subject: Arkansas Nuclear One - Unit 2  
Docket Nos. 50-368; 72-13  
License No. NPF-6  
Response To Inspection Report  
50-368/97-12; 72-13/97-01



Gentlemen:

Pursuant to the provisions of 10CFR2.201, attached is the response to the notice of violation involving the lack of an adequate procedure to ensure that the shield lid drain line was free from obstruction prior to use on a dry fuel storage cask.

Should you have any questions or comments, please call me at 501-858-4601.

Very truly yours,

*Allen R. Ashley*  
for

Dwight C. Mims  
Director, Nuclear Safety

DCM/ajs

Attachments

97-1371

9706250248 4pp.

U. S. NRC

June 19, 1997

2CAN069712 PAGE 2

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

NRC Senior Resident Inspector  
Arkansas Nuclear One  
P.O. Box 310  
London, AR 72847

Mr. George Kalman  
NRR Project Manager Region IV/ANO-1 & 2  
U. S. Nuclear Regulatory Commission  
NRR Mail Stop 13-H-3  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852

Dr. Carl J. Paperiello, Director  
Office of Nuclear Material Safety and Safeguards  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555

## NOTICE OF VIOLATION

During an NRC inspection conducted on April 7-9, 1997, one violation of NRC requirements was identified. In accordance with the "General Statement of Policy and Procedure for NRC Enforcement Actions," NUREG-1600, the violation is listed below:

- A. 10 CFR Part 50, Appendix B, Criterion V states, in part, that activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings. Instructions, procedures, or drawings shall include appropriate quantitative and qualitative acceptance criteria for determining that important activities have been satisfactorily accomplished.

Contrary to the above, Arkansas Nuclear One procedures did not include the requirement to verify that the shield lid drain lines were free from obstruction prior to use of the shield lid. This resulted in a small plastic cap being left in the drain line of the shield lid preventing the draining of water from the cask prior to welding the shield lid in place (50-368/9712-01).

This is a Severity Level IV violation (Supplement VI)

### Response to Notice Of Violation 368/9712-01

#### (1) Reason for the violation:

During the initial water removal phase of loading the fourth dry fuel cask at ANO, a lack of water flow indicated an apparent obstruction in the drain pipe inside the cask or the drain line embedded in the shield lid. This discovery was made after the cask had been loaded with fuel and the shield lid set in place, but before any welding was started.

Shield lids staged for future loading were inspected and no obstructions were found. However, upon inspection of additional shield lids located within a storage area, plastic protective caps were found in the bottom of several shield lid drain tubes. Discussion with the cask fabricator revealed that the protective caps were installed during fabrication of the shield lid to ensure that foreign material would not enter the lid drain tube and cleanliness control would be maintained. Since the first three casks did not experience any problems during the drain down process it is concluded that no obstruction existed within those shield lids.

A Temporary Change was made to procedure 1302.025, *Spent Fuel Removal and Dry Storage Operations*, to return the cask to the cask loading pit, raise the shield lid, and



inspect the drain pipe and shield lid drain line. Inspection of the drain line tubing in the shield lid revealed a plastic protective cap similar to that found in the stored shield lids. After the cap was removed the shield lid was reinstalled and the balance of the loading procedure was performed.

The cause of the cap being in the shield lid during cask loading was the failure to adequately inspect the flow paths through the lid. During preparation of the lid for installation, the shield lid drain tubing holes received a visual inspection, however, the pipe cap was sufficiently deep into the penetration that it was not discovered. This flow path should have been inspected more thoroughly. The pipe caps are not shown on the vendor drawings, are not listed in any other instructions, and were not included within the three previously installed shield lids. Therefore, there was no procedural requirement to inspect for the presence of the caps.

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

The cask was returned to the cask loading pit and inspected. The protective cap found in the shield lid drain line was removed and procedure 1302.025 was completed.

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

Procedure 1302.024, *Dry Fuel Storage Equipment Preparation*, will be revised to include inspection of flow paths for cleanliness and obstructions. This will be completed prior to resumption of dry fuel storage cask loading.

Procedure 1302.025, *Spent Fuel Removal and Dry Storage Operations*, will be revised prior to resumption of dry fuel storage cask loading, to verify the tubing located within the shield lid is not obstructed with foreign material by injecting air through the line prior to connection of the drain tube.

Appropriate personnel will be trained on the above procedure changes prior to resumption of dry fuel storage cask loading.

(4) Date when full compliance will be achieved:

Full compliance will be achieved when procedure 1302.024 is revised to include inspection of flow paths for cleanliness and obstructions. This will be completed prior to resumption of dry fuel storage cask loading.