



# Entergy Operations

Entergy Operations, Inc.  
Route 3 Box 1370  
Russellville, AR 72801  
Tel 501-964-8888

Neil S. "Buzz" Carns  
Vice President  
Operations ANO

October 15, 1991

ØCAN109103

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

Subject: Arkansas Nuclear One - Unit 1 and 2  
Docket Nos. 50-313 and 50-368  
License Nos. DPR-51 and NFP-6  
Technical Specifications Change Request Regarding  
Diesel Fire Pump Battery

Gentlemen:

Attached for your review and approval is a proposed change revising ANO-1 Technical Specifications Surveillance 4.20.3.c.1 and ANO-2 Surveillance 4.7.10.1.3.c.1 to delete the requirement for a visual internal cell inspection of the diesel fire pump battery.

The proposed change has been evaluated in accordance with 10CFR50.91 (a) (1) using the criteria in 10CFR50.92 (c) and it has been determined that these changes involve no significant hazards considerations. The basis for this determination is included in the attached submittal. This change will provide a test consistent with the design of the diesel fire pump battery.

We request that the effective date for this change be upon NRC issuance of the amendment.

Very truly yours,

NSC/prm  
Attachments

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October 15, 1991  
U. S. NRC  
@CAN109103

cc: Mr. Robert Martin  
U. S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, TX 76011

NRC Senior Resident Inspector  
Arkansas Nuclear One - ANO-1 & 2  
Number 1, Nuclear Plant Road  
Russellville, AR 72801

Mr. Tom Alexion  
NRR Project Manager, Region IV/ANO-1  
U. S. Nuclear Regulatory Commission  
NRR Mail Stop 11-D-23  
One White Flint North  
11555 Rockville Pike  
Rockville, Maryland 20852

Ms. Sheri Peterson  
NRR Project Manager, Region IV/ANO-2  
U. S. Nuclear Regulatory Commission  
NRR Mail Stop 11-D-23  
One White Flint North  
11555 Rockville Pike  
Rockville, Maryland 20852

Ms. Greta Dicus, Director  
Division of Radiation Control  
and Emergency Management  
Arkansas Department of Health  
4815 West Markham Street  
Little Rock, AR 72201

STATE OF ARKANSAS     )  
                              )  
COUNTY OF LOGAN     )

SS

OATH

I, J. W. Yelverton, being duly sworn, subscribe to and say that I am General Manager, Plant Operations AND for Entergy Operations, that I have full authority to execute this oath; that I have read the document numbered 0CAN109103 and know the contents thereof; and that to the best of my knowledge, information and belief the statements in it are true.

J. W. Yelverton  
J. W. Yelverton

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for the County and State above named, this 15th day of October, 1991.

Sandy Sichenmorgen  
Notary Public

My Commission Expires:

May 11, 2000

ENCLOSURE

PROPOSED TECHNICAL SPECIFICATION

AND

RESPECTIVE SAFETY ANALYSES

IN THE MATTER OF AMENDING

LICENSE NOS. DPR-51 AND NFP-6

ENTERGY OPERATIONS, INC.

ARKANSAS NUCLEAR ONE, UNITS 1 AND 2

DOCKET NOS. 50-313 AND 50-368

### PROPOSED CHANGE

The proposed change to ANO-1 Surveillance Requirement 4.20.3.c.1 and ANO-2 Surveillance Requirement 4.7.10.1.3.c.1 is to delete the requirement for a visual cell plate inspection of the diesel fire pump battery.

### BACKGROUND

The diesel fire pump battery 18 month inspection required by Surveillance Requirements 4.20.3.c.1 and 4.7.10.1.3.c.1 consists of two visual inspections. The current Surveillance Requirements require verification that the battery, cell plates and battery racks show no visual indication of physical damage or abnormal deterioration. The case for the battery installed for the ANO diesel fire pump is not transparent, and therefore, the cell plates cannot be effectively visually inspected. Currently, this inspection is accomplished by removing the cell caps to accomplish the inspection of the cell plates. The other requirements of the Surveillance can be accomplished as written.

### DISCUSSION

The intent of Surveillance Requirements 4.20.3 and 4.7.10.1.3.c.1 is to ensure operability of the diesel fire pump battery, thereby providing a reliable source of power for starting the diesel. The case for this battery is constructed of an opaque material, such that an effective visual inspection of the cell plates is not feasible. The design of this battery is such that the other required inspections and tests can be performed to ensure reliable operation. Other surveillances adequately address the effects of any damage or deterioration of the cell plates.

ANSI/IEEE Standard 450-1987, IEEE Recommended Practice for Maintenance, Testing and Replacement of Large Lead Storage Batteries for Generating Stations and Substations, provides recommended practices for inspections of batteries. In section 4.3, Inspections, the following visual inspections are listed:

1. General appearance and cleanliness of the battery, the battery rack, and battery area.
2. Cracks in cells or leakage of electrolyte.
3. Any evidence of corrosion at terminals, connectors, or racks. Cell plate inspection is not listed as an inspection criteria.

Cell plate inspection is not listed as an inspection criteria.

This change will provide a test consistent with the design of the diesel fire pump battery.



#### DETERMINATION OF SIGNIFICANT HAZARDS

An evaluation of the proposed change has been performed in accordance with 10CFR50.91 (a) (1) regarding no significant hazards consideration using the standards in 10CFR50.92 (c). A discussion of those standards as they relate to this amendment request follows:

Criterion 1 - Does not involve a Significant Increase in the Probability or Consequences of an Accident Previously Evaluated.

Deleting this inspection would not involve any increase in the probability of a previously evaluated accident. As the ability of the battery to start the diesel fire pump is ensured by other surveillances performed, deleting this inspection would not impair the ability of the diesel fire pump to mitigate the consequences of a fire. No other accident as described in the Safety Analysis Report would be affected by this change, therefore, this change would not involve a significant increase in the probability or consequences of an accident previously evaluated.

Criterion 2 - Does not create the possibility of a New or Different Kind of Accident from any Previously Evaluated.

No new or different accident from any previously evaluated would be created by deletion of the visual inspection of the cell plates for the diesel fire pump battery. This inspection has no effect on accidents of the type considered in the Safety Analysis.

Criterion 3 - Does not Involve a Significant Reduction in the Margin of Safety.

Other tests ensure the capability of the diesel fire pump battery to perform its function, therefore, this change does not involve a significant reduction in the margin of safety.

#### CONCLUSION

As discussed above, this is the correction of an error in the Technical Specifications; in that, the diesel fire pump battery is not designed for visual inspections of the cell plates.

Based on the above evaluation it is concluded that the proposed Technical Specification change does not constitute a significant hazards concern.