



# Entergy Operations

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March 5, 1993

OCAN039302

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

Subject: Arkansas Nuclear One - Units 1 and 2  
Docket Nos. 50-313 & 50-368  
License Nos. DPR-51 & NFF-6  
Response to NRC Bulletin 90-01, Supplement 1

Gentlemen:

NRC Bulletin No. 90-01 "Loss of Fill-Oil in Transmitters Manufactured by Rosemount" was issued March 9, 1990 to address NRC and industry concerns over selected Rosemount transmitters. The requested actions included identification of all Rosemount Model 1153 Series B and D and Model 1154 transmitters used in safety-related or ATWS systems. In addition, the licensee was requested to develop and implement a program to replace, at the earliest opportunity, transmitters from these suspect lots in use in the reactor protection (RPS) or engineered safety features actuation systems (ESFAS).

Supplement 1 to NRC Bulletin (NRCB) 90-01, dated December 22, 1992 was issued to modify the surveillance requirements of certain Rosemount 1153 B and D and 1154 transmitters manufactured prior to July 11, 1989. Time at pressure criteria were applied to the subject transmitters and specific surveillance frequencies were requested based on this criteria. The Supplement 1 Reporting Requirements requested a response be provided within 60 days of receipt.

Attached is the Entergy Operations response for ANO. This information satisfies the specific Reporting Requirements of NRCB 90-01, Supplement 1 for ANO-1 and ANO-2.

The above information is being submitted under oath pursuant to the provision of 10CFR50.54(f).

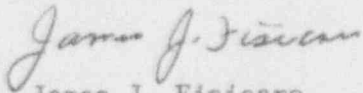
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Should you have any questions regarding this submittal, please contact me.

Very truly yours,

A handwritten signature in cursive script, reading "James J. Fisicaro".

James J. Fisicaro  
Director, Licensing

JJF/JH/prg  
Attachment

cc: Mr. James L. Milhoan  
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STATE OF ARKANSAS )

COUNTY OF POPE )

SS JD 3/5/93

Affidavit

I, James J. Fisicaro, being duly sworn, subscribe to and say that I am Director, Licensing ANO for Entergy Operations, that I have full authority to execute this affidavit; that I have read the document numbered 0CAN039302 and know the contents thereof; and that to the best of my knowledge, information and belief the statements in it are true.

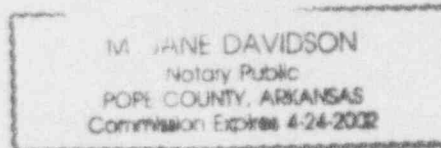
James J. Fisicaro  
James J. Fisicaro

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for the County and State above named, this 5<sup>th</sup> day of March, 1993.

M. Jane Davidson  
Notary Public

My Commission Expires:

4-24-2002



## ANO 1&2 RESPONSE TO NRCB 90-01, SUPPLEMENT 1 ROSEMOUNT TRANSMITTER FILL-OIL LOSS

### REPORTING REQUIREMENTS

Provide within 60 days after receipt of this bulletin, a response that includes the following:

1. A statement whether the licensee will take the actions requested above.

### ANO Response

Entergy Operations at ANO intends to follow the actions identified as Items 1a. through 1f. in NRC Bulletin 90-01, Supplement 1.

2. With regard to the actions requested above that the licensee is taking:
- 2a. A list of the specific actions that the licensee will complete to meet Item 1 of Requested Actions for Operating Reactors provided in this supplement, including justifications as appropriate.
- 2b. The schedule for completing licensee actions to meet Item 1.

### ANO Response

Reporting Requirement Items 2a. and 2b. are addressed in the table below.

ACTION ITEMS TO RESPOND TO NRCB 90-01, SUPPLEMENT 1 Items 2a. and 2b.	ESTIMATED SCHEDULE FOR ANO-1	ESTIMATED SCHEDULE FOR ANO-2
1. Identify all Rosemount 1153 Series B, 1153 Series D, and 1154 transmitters manufactured before July 11, 1989 installed in safety-related or ATWS applications.	5/1/93	5/1/93
2. Compile a matrix of all transmitters identified by Item 1, based on maturity (PSI-Months) and normal operating pressure.	6/1/93	6/1/93
3. Identify those transmitters in normally high or moderate pressure operating conditions that have not reached their maturity and which cannot be readily accessed for increased surveillance during normal plant operations. Evaluate for potential replacement during the next achievable refueling outage.	7/1/93	7/1/93
4. Evaluate subject transmitters for modified surveillance requirements to comply with NRCB 90-01, Supplement 1.	8/1/93	8/1/93



ACTION ITEMS TO RESPOND TO NRCB 90-01, SUPPLEMENT 1 Items 2a. and 2b.	ESTIMATED SCHEDULE FOR ANO-1	ESTIMATED SCHEDULE FOR ANO-2
5. Confirm the adequacy of the ANO enhanced surveillance program to the latest Rosemount and NUMARC guidelines on the optimum means for detecting transmitter response problems due to fill oil loss.	4/15/93	4/15/93
6. Prepare purchase orders for any transmitters which need to be replaced at the next designated outage.	2/1/94	10/1/93
7. Prepare justifications on any transmitters having reached their maturity threshold which are being removed or extended from the recommended surveillance of non-mature transmitters. Retain in the ANO file.	11/1/93	11/1/93
8. Identify transmitters which must have procedures modified to accommodate any additional surveillance requirements of NRCB 90-01, Supplement 1.	9/1/93	9/1/93
9. Modify the required ANO-1 and ANO-2 procedures necessary to ensure that the specified surveillances are performed to support the enhanced monitoring program.	1/15/94	1/15/94
10. Implement enhanced monitoring program for subject Rosemount transmitters based on results of Items 6 and 8. (Note 1)	2/15/94	2R10
11. Replace any transmitters as a result of Item 3 and 6 above. (Note 1)	1R12 (Note 2)	2R10 (03/94)

**Note 1:** The dates shown for these items are considered NRC commitments. Other action item dates are only internal action dates.

**Note 2:** The 1R12 refueling outage is scheduled for commencement in the spring of 1995. Replacements will be made prior to 1R12 given an outage of sufficient length and transmitter availability.

- 2c. When completed, a statement confirming that Items 1 and 2 of Requested Actions for Operating Reactors provided in this supplement have been completed.

**ANO Response**

Entergy Operations will submit a completion letter to NRC confirming that Items 1 and 2 of Requested Actions for Operating Reactors provided in this supplement have been completed. ANO will provide this notification within 90 days of completion of the actions above.

3. A statement identifying those actions requested by the NRC that the licensee is not taking and an evaluation which provides the bases for not taking the requested actions.

**ANO Response**

As discussed in Item 1 above, ANO intends to comply with the requested actions of the supplement. Should a necessary change be made to this commitment, the NRC staff will be notified and justification will be provided for any deviations.