

L I C E N S E E E V E N T R E P O R T (L E R)

FACILITY NAME (1) Arkansas Nuclear One, Unit One										DOCKET NUMBER (2) PAGE (3) 050003113110F121														
TITLE (4) Reactor Trip from Erroneous Anticipatory Trip Signal																								
EVENT DATE (5)					LER NUMBER (6)					REPORT DATE (7)					OTHER FACILITIES INVOLVED (8)									
Month		Day		Year		Sequential		Revision			Month		Day		Year		Facility Names Docket Number(s)							
01		31		68		48		002			01		01		01		050003113110F121							
OPERATING THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §:																								
MODE (9) N (Check one or more of the following) (11)																								
POWER					20.402(b)					20.405(c)					X 50.73(a)(2)(iv)					73.71(b)				
LEVEL					20.405(a)(1)(i)					50.36(c)(1)					50.73(a)(2)(v)					73.71(c)				
(10) 01 17					20.405(a)(1)(ii)					50.36(c)(2)					50.73(a)(2)(vii)					Other (Specify in				
					20.405(a)(1)(iii)					50.73(a)(2)(i)					50.73(a)(2)(viii)(A)					Abstract below and				
					20.405(a)(1)(iv)					50.73(a)(2)(ii)					50.73(a)(2)(viii)(B)					in Text, NRC Form				
					20.405(a)(1)(v)					50.73(a)(2)(iii)					50.73(a)(2)(x)					366A)				
L I C E N S E E C O N T A C T F O R T H I S L E R (12)																								
Name															Telephone Number									
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Patrick Rogers, Special Projects Coordinator															501964311001									
C O M P L E T E O N E L I N E F O R E A C H C O M P O N E N T F A I L U R E D E S C R I B E D I N T H I S R E P O R T (13)																								
Cause		System		Component		Manufacturer		Reportable to NPRDS		Cause		System		Component		Manufacturer		Reportable to NPRDS						
X		J K		T R B		W 1 2 0		N																
S U P P L E M E N T R E P O R T E X P E C T E D (14)																								
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															DATE (15)									
Yes (If yes, complete Expected Submission Date) X No																								
A B S T R A C T (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)																								

On 3/16/84 at 2243 while at approximately 17% FP, the reactor tripped on the Reactor Protective System (RPS) anticipatory trip on loss of both main feedwater (MFW) pumps. Unit 1 was in the process of a controlled shutdown for a mid-cycle maintenance outage. "B" MFW pump had been removed from service previously. "A" MFW pump did not actually trip. The RPS actuation is believed to be due to perturbations in the MFW pump turbine control oil system, possibly due to clogged filters. The Emergency Feedwater System (EFW) automatic actuation also occurred. The RPS and EFW performed as designed. The filters were changed in the control oil system, and the control oil gauges and anticipatory trip switches were calibrated during the outage.

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NRC Form 366A
(9-83)U.S. Nuclear Regulatory Commission
Approved OMB No. 3150-0104
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		Sequential	Revision		
			Year	Number	
Arkansas Nuclear One, Unit One	0510101313	84	--	002	--00020F02

TEXT (If more space is required, use additional NRC Form 366A's) (17)

On 3/16/84 at 2243 while at approximately 17% FP, the reactor tripped on the Reactor Protective System (RPS) anticipatory trip on loss of both main feedwater (MFW) pumps. Unit 1 was in the process of a controlled shut-down for a mid-cycle maintenance outage. "B" MFW pump had been removed from service previously. "A" MFW pump did not actually trip, but the RPS received signals from the anticipatory trip pressure switches.

The anticipatory trip signal originates from 4 pressure switches located in the control oil lines on the MFW turbine. The pressure switches are set at 60 psi decreasing. Also, EFW is actuated from 2 pressure switches that are located in the same line. These pressure switches are also set at 60 psi decreasing.

The RPS actuation is believed to be due to perturbations in the control oil possibly due to clogged filters. "A" MFW was experiencing a high differential pressure across the control oil filters earlier in the day. If the control oil pressure dropped to 60 psi, then both the RPS anticipatory trip and EFW actuation would occur. The EFW was auto started, but it cannot be determined if this was due to low SG level or from a control oil pressure drop.

After the trip the auxiliary feedwater pump was manually started and placed in service and the MFW pump and EFW pump were removed from service. Systems and personnel performed well in response to the trip. No significant problems were encountered during trip recovery. During the outage, the control oil filters were changed, the anticipatory trip switches were calibrated, and the control oil pressure gauges were calibrated.



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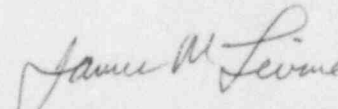
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Subject: Arkansas Nucler One - Unit 1
Docket No. 50-313
License No. NPF-6
Licensee Event Report
No. 84-002-00

Gentlemen:

In accordance with 10CFR50.73(a)(2)(iv), attached is the subject report concerning a reactor trip from an erroneous anticipatory trip signal.

Very truly yours,


James M. Levine
General Manager

JML:mab

Attachment

cc: Mr. Richard P. Denise, Director
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