

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 Two										DOCKET NUMBER (2) PAGE (3) 10151010131618110F121													
TITLE (4) Reactor Trip on High Steam Generator Level																							
EVENT DATE (5)					LER NUMBER (6)					REPORT DATE (7)					OTHER FACILITIES INVOLVED (8)								
Month	Day	Year	Year		Sequential	Revision				Month	Day	Year				Facility Names	Docket Number(s)						
01	5	01	7	8	4	8	4	--	0	1	1	--	0	1	0	01	5	01	7	8	4		10151010101
OPERATING MODE (9)   1   THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5:																							
(Check one or more of the following) (11)																							
POWER LEVEL (10)		01616		20.402(b)		20.405(c)		X		50.73(a)(2)(iv)		73.71(b)		73.71(c)		Other (Specify in Abstract below and in Text, NRC Form 366A)							
				20.405(a)(1)(i)		50.36(c)(1)				50.73(a)(2)(v)													
				20.405(a)(1)(ii)		50.36(c)(2)				50.73(a)(2)(vii)													
				20.405(a)(1)(iii)		50.73(a)(2)(i)				50.73(a)(2)(viii)(A)													
				20.405(a)(1)(iv)		50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)													
				20.405(a)(1)(v)		50.73(a)(2)(iii)				50.73(a)(2)(x)													
LICENSEE CONTACT FOR THIS LER (12)																							
Name Patrick C. Rogers, Plant Licensing Engineer															Telephone Number Area Code 51011916141311171								
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																							
Cause	System	Component	Manufacturer	Reportable to NPPDS	Cause	System	Component	Manufacturer	Reportable to NPPDS														
SUPPLEMENT REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		Month Day Year											
Yes (If yes, complete Expected Submission Date) No																							
ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)																							

On 5/7/84, at 0126 hours during power escalation following a load reduction ordered by the system dispatcher, a reactor-turbine trip occurred due to high level on "B" steam generator. During the power maneuvers, oscillations in feedwater flow occurred with main feedwater control in automatic. In an attempt to avert a unit trip, controls for the main feedwater regulating valves were placed in manual. The unit tripped at 66% full power (FP) during manual feedwater control. No post-trip anomalies or difficulties were noted. Investigation of the control system oscillations revealed that the master controller settings were not at optimum setpoints for maneuvering at reduced power levels. These settings had previously been tuned for optimum automatic control action at 100% power.

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Investigation of the control system oscillations revealed that the master feedwater controller proportional band was set higher than optimum for reduced power conditions which caused the feedwater system to respond slowly to transient conditions. This action had been taken while at 100% FP after startup from refueling to optimize system response at full power. This change complicated the control difficulty of this system in manual. The proportional band for the master controller was reset after the trip and the proper electronic damping for the the main feedwater flow transmitters was verified. The system was tested and found to respond properly prior to plant restart. I&C Technicians have marked the proper proportional band control settings for both main feedwater controllers in the feedwater control system in an attempt to prevent a similar future occurrence.



ARKANSAS POWER & LIGHT COMPANY

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Subject: Arkansas Nuclear One - Unit 2  
Docket No. 50-368  
License No. NPF-6  
Licensee Event Report  
No. 84-011-00

Gentlemen:

In accordance with 10CFR50.73(a)(2)(iv), attached is the subject report concerning a reactor-turbine trip due to a high level on "B" steam generator.

Very truly yours,

John R. Marshall  
Manager, Licensing

JRM:RJS:ac

Attachment

cc: Mr. Richard P. Denise, Director  
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and Engineering Programs  
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