

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)
TITLE (4) Manual Reactor Trip 10510101 31 11 3110F1011

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
Month	Day	Year	Sequential Number	Revision Number	Month	Day	Year	Facility Names	Docket Number(s)	
01	08	1985	01	01	01	09	11		10510101	
OPERATING MODE (9) N THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §:										
(Check one or more of the following) (11)										
POWER LEVEL (10)		20.402(b)		20.405(c)		X 50.73(a)(2)(iv)		73.71(b)		
		20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(c)		
		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)		

LICENSEE CONTACT FOR THIS LER (12)
Name Patrick C. Rogers, Plant Licensing Engineer Telephone Number
Area
Code
5101191641-1311010

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)									
Cause	System	Component	Manufacturer	Reportable to NPRDS	Cause	System	Component	Manufacturer	Reportable to NPRDS
A	J	K	6151	W	1	2	0		Y

SUPPLEMENT REPORT EXPECTED (14)
Yes (If yes, complete Expected Submission Date) No
ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On 8/19/85 power escalation was in progress following a previously reported reactor trip (LER 50-313/85-07). With power at 91%, the 'B' main feedwater (MFW) pump (P-1B) (EIIIS Identifier JK-65-P1B) suddenly increased in speed and tripped on overspeed. An automatic plant runback to 45% power was initiated by the Integrated Control System on loss of a MFW pump. At 1920, with the plant at 88% power, operations personnel who were taking actions to control primary system pressure manually tripped the reactor believing an automatic trip had occurred. Post trip plant response was normal and no operational difficulties were noted. Investigation revealed that the P-1B turbine speed control governor shaft to drive shaft coupling had failed with the resultant loss of speed control. Failure of the coupling was attributed to insufficient tightening of a set screw for a nut holding the governor drive shaft on the thrust collar. Upon loosening, the nut holding the governor drive shaft on the thrust collar moved up to the governor shaft to drive shaft coupling where it wore the coupling to the point of failure. The governor shaft, drive shaft and associated parts were replaced. During governor reassembly, as an added precaution, an additional set screw was utilized to 'lock' the primary set screw in place. P-1B was tested and returned to service on 8/26/85 during power escalation. No similar occurrences have been reported. Several feedwater related reactor trips have been recently reported (LERs 50-313/85-02, 85-03, 85-04, 85-05, 85-07). An engineering evaluation of these feedwater-based problems is in progress.



ARKANSAS POWER & LIGHT COMPANY

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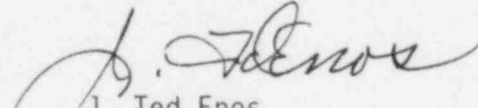
U. S. Nuclear Regulatory Commission
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Washington, D.C. 20555

Subject: Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51
Licensee Event Report
No. 85-008-00

Gentlemen:

In accordance with 10CFR50.73(a)(2)(iv), attached is the subject report concerning a manual reactor trip following an overspeed trip of the "B" main feedwater pump.

Very truly yours,


J. Ted Enos
Manager, Licensing

JTE:RJS:ds

Attachment

cc: Mr. James M. Taylor
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, DC 20555

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