

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Arkansas Nuclear One, Unit One DOCKET NUMBER (2) PAGE (3)
 101510101 31 11 3110F1012
 TITLE (4) Reactor Trip After Intercept Valves Closure and Subsequent Feedwater Pump Trip

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	51	31	1	81	51	81	51	01 01 41--	01 01 01 71 01 11 81 51
OPERATING MODE (9) NI (Check one or more of the following) (11)									101510101
POWER LEVEL (10) 110101		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
 51011916141-1311010

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
X	TI	B	XI	PI	TI	G	01	81	01
X	SI	J	PI	SI		W	11	21	01

SUPPLEMENT REPORT EXPECTED (14)
 EXPECTED SUBMISSION DATE (15)
 Yes (If yes, complete Expected Submission Date) [X] No
 DATE (15)

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On May 31, 1985, at 0324 hours, with the unit operating at 100% power, the four reheat stop and intercept valves closed isolating steam supply to the low pressure stages of the main turbine. Approximately 6 seconds following the intercept valve closure, the "A" main feedwater pump (MFP) tripped. The Integrated Control System commenced a reactor power runback on loss of the "A" MFP but the reactor tripped on high pressure at approximately 87% power. Emergency Feedwater (EFW) was actuated on low "A" steam generator level after the reactor trip. EFW was used to maintain steam generator level until auxiliary feedwater was placed in service. Troubleshooting of the circuitry associated with the intercept valves revealed a bad connection on the primary disconnect of the metering and relay potential transformer assembly. This faulty connection is believed to have generated an erroneous close signal to the valve control circuitry. The disconnects were realigned and proper connection verified. The "A" MFW pump trip is believed to have been caused by a spurious low condenser vacuum trip signal to the MFW pump. During the transient, the expansion joint for main feedwater heater E2A cracked at a weld. Inspection of the other train main feedwater heater, E2B, also revealed a cracked weld in the corresponding expansion joint. E2A and E2B are located just upstream of the main feedwater pumps. The expansion joint cracking had no noticeable effect on the transient. The expansion joint cracking has been attributed to fatigue. The expansion joints were repaired and the feedwater heaters returned to service.

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ARKANSAS POWER & LIGHT COMPANY

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July 1, 1985

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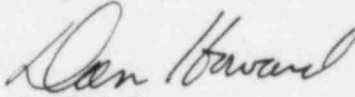
U. S. Nuclear Regulatory Commission
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Washington, D.C. 20555

Subject: Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51
Licenses Event Report
No. 85-004-00

Gentlemen:

In accordance with 10CFR50.73(a)(2)(iv), attached is the subject report concerning a reactor trip following the spurious closure of the reheat stop and intercept valves, and the subsequent trip of one main feedwater pump.

Very truly yours,


J. Ted Enos
Manager, Licensing

JTE:RJS:ds

Attachment

cc: Mr. Richard C. DeYoung
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. Norman M. Haller, Director
Office of Management & Program Analysis
U. S. Nuclear Regulatory Commission
Washington, DC 20555

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