

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)
10151010101 31 11 31101011
TITLE (4) Anticipatory Reactor Trip Following Loss of Main Feedwater Pump

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	01	09	08
OPERATING MODE (9) N THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)									0151010101
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
151011916141-1311010

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)									
Cause	System	Component	Manufacturer	Reportable to NPDOS	Cause	System	Component	Manufacturer	Reportable to NPDOS
X	J	K	T	R	B	W	1	2	0

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

On 8/11/85 at 1611 hours, a reactor trip occurred while operating at 98% full power (FP). A high thrust bearing wear indication caused a trip of the "B" main feedwater (MFW) pump (P-1B). When "A" MFW pump (P-1A) (EIIS Identifier = JK-TRB-P1A) increased speed, the MFW pump control oil pressure spuriously decreased such that the Reactor Protection System (RPS), which utilizes MFW pump control oil pressure as an indication of MFW pump operating status, sensed that both MFW pumps had tripped. The anticipatory reactor trip (ART) circuitry generated an anticipatory reactor trip on the perceived loss of both MFW pumps. The Emergency Feedwater (EFW) system was also actuated by the RPS indication of a loss of both MFW pumps. However, no EFW was injected into the steam generators as the desired levels were maintained by P-1A which did not actually trip. Increased reactor coolant makeup via the high pressure injection system was manually initiated after the trip and was secured approximately two minutes later. No significant post trip operational difficulties were observed. MFW pump P-1B was disassembled and the thrust bearing inspected. The bearing was determined to be acceptable and was used in reassembly of P-1B. The high thrust bearing wear alarm and trip circuitry was inspected and recalibrated to as-left bearing tolerances after reassembly of P-1B. The ART control oil pressure sensor systems for both MFW pumps were modified to include metering valves in an attempt to mitigate spurious low control oil pressure indications.

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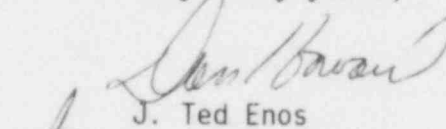
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Subject: Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51
Licensee Event Report
No. 85-007-00

Gentlemen:

In accordance with 10CFR50.73(a)(2)(iv), attached is the subject report concerning a high thrust bearing wear indication which caused a reactor trip on the "B" main feedwater pump, P-1B.

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

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

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