

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)
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TITLE (4) Reactor Trip Caused by a Dropped Control Element Assembly

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	1984	01	01	01	09	21	0151010101	0151010101

OPERATING MODE (9) 1 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(a)(1)(i)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
	20.405(a)(1)(ii)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)	
	20.405(a)(1)(iii)	50.36(c)(2)	50.73(a)(2)(vii)	Other (Specify in Abstract below and in Text, NRC Form 366A)	
	20.405(a)(1)(iv)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)		
	20.405(a)(1)(v)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)		
		50.73(a)(2)(iii)	50.73(a)(2)(x)		

LICENSEE CONTACT FOR THIS LER (12)
Name Patrick Rogers, Plant Licensing Engineer Telephone Number
Area
Code
5101191614-1311010

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	AI	RI	01	01	C	41	91	01	Y
X	EI	AI	BI	KI	RI	GI	01	81	01

SUPPLEMENT REPORT EXPECTED (14)
I Yes (If yes, complete Expected Submission Date) X No
EXPECTED SUBMISSION DATE (15)
Month Day Year
1 1 1

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)
On 8/28/84, at 0842 hours while in Mode 1 at 100% full power (FP) a reactor trip occurred as a result of a dropped Control Element Assembly (CEA). Penalties generated by the Control Element Assembly Calculators due to the misaligned shutdown group CEA and supplied to the Core Protection Calculators resulted in a calculated low DNBR leading to a reactor trip. Investigation revealed that the power supply breaker for the CEA was open and that a single phase power supply fuse for the dropped CEA's subgroup and one other CEA subgroup was open. A silicon controlled rectifier was replaced for the dropped CEA. The power supply fuses, opto-isolator cards and coil driver cards were replaced for the CEA subgroups. The subgroups operation was normal during testing following repairs. During automatic transfer of auxiliary loads after the trip, the 6.9 kV bus 2H2 lockout relay tripped. As a result, Reactor Coolant Pumps (RCP) 2P-32B and 2P-32C tripped. Forced circulation was maintained with one pump per loop by RCPs 2P-32A and 2P-32D. Bus 2H2 lockout relay trip was apparently due to slow opening of the unit auxiliary transformer feeder breaker for bus 2H2. The breaker was replaced. Similar occurrences were reported in LER's 50-368/82-004, 81-031, 79-084, 79-083, and 78-023.

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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 2
Docket No. 50-368
License No. NPF-6
Licensee Event Report
No. 84-024-00

Gentlemen:

In accordance with 10CFR50.73(a)(2)(iv), attached is the subject report concerning a reactor trip which occurred as a result of a dropped control element assembly.

Very truly yours,

John R. Marshall
Manager, Licensing

JRM:RJS:ac

Attachment

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

Mr. Richard C. DeYoung
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
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