

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 2 DOCKET NUMBER (2) PAGE (3)
TITLE (4) 1051010101 31 61 8110F1011

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)	
1	10	84	0	0	1	11	12	19	84	
<p>Reactor Trip Due to Out of Range Axial Shape Index</p> <p>OPERATING MODE (9) 1 THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)</p> <p>POWER LEVEL (10) 101017</p> <p>20.402(b) 20.405(a)(1)(i) 50.36(c)(1) 50.73(a)(2)(iv) 73.71(b)</p> <p>20.405(a)(1)(ii) 50.36(c)(2) 50.73(a)(2)(v) 73.71(c)</p> <p>20.405(a)(1)(iii) 50.73(a)(2)(i) 50.73(a)(2)(vii) Other (Specify in</p> <p>20.405(a)(1)(iv) 50.73(a)(2)(ii) 50.73(a)(2)(viii)(A) Abstract below and</p> <p>20.405(a)(1)(v) 50.73(a)(2)(iii) 50.73(a)(2)(viii)(B) in Text, NRC Form</p> <p>50.73(a)(2)(x) 366A</p>										

NAME LICENSEE CONTACT FOR THIS LER (12) 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

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

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)
On 10/31/84, at 0507 hours an automatic reactor trip occurred while in Mode 1 at approximately 7% power. A Core Protection Calculator (CPC) determined axial shape index (ASI), utilizing excore nuclear instrumentation, exceeded the CPC analyzed ASI range resulting in a CPC auxiliary trip on low departure from nucleate boiling ratio (DNBR)/high local power density (LPD). The difficulty of ASI control during startups late in the cycle had not been anticipated. Plant startup procedures have been modified to include guidance for ASI control considering core life in addition to previously provided guidance considering core conditions, eg., control rod position and transient poison (xenon) effects. No post trip operational difficulties were noted. There have been no previous reportable occurrences of this type.

8412110232 841129
PDR ADOCK 05000368
S PDR

IE22
111



ARKANSAS POWER & LIGHT COMPANY

POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4000

November 29, 1984

2CAN118411

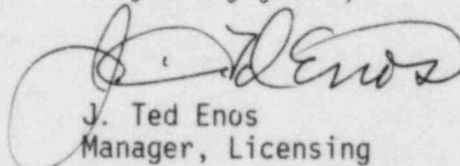
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Subject: Arkansas Nuclear One - Unit 2
Docket No. 50-368
License No. NPF-6
Licensee Event Report
No. 84-027-00

Gentlemen:

In accordance with 10CFR 50.73(a)(2)(iv), attached is the subject report concerning an automatic reactor trip due to out of range axial shape index.

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

IE22
11