

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)										DOCKET NUMBER (2) (PAGE (3))												
Arkansas Nuclear One, Unit Two										10151010101 31 61 8110F1012												
TITLE (4)										Remote Shutdown Monitoring Instrumentation Range Not In Accordance With Technical Specifications												
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)										
11	1	01	7	8	2	8	5	--	0	1	0	--	0	1	0	5	1	4	8	5	0151010101	
OPERATING MODE (9)										THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)												
POWER LEVEL (10) 1010101										<input type="checkbox"/> 20.402(b) <input type="checkbox"/> 20.405(c) <input type="checkbox"/> 50.73(a)(2)(iv) <input type="checkbox"/> 73.71(b) <input type="checkbox"/> 20.405(a)(1)(i) <input type="checkbox"/> 50.36(c)(1) <input type="checkbox"/> 50.73(a)(2)(v) <input type="checkbox"/> 73.71(c) <input type="checkbox"/> 20.405(a)(1)(ii) <input type="checkbox"/> 50.36(c)(2) <input type="checkbox"/> 50.73(a)(2)(vii) <input type="checkbox"/> Other (Specify in Abstract below and in Text, NRC Form 366A) <input checked="" type="checkbox"/> 20.405(a)(1)(iii) <input checked="" type="checkbox"/> 50.73(a)(2)(i) <input type="checkbox"/> 50.73(a)(2)(viii)(A) <input type="checkbox"/> 20.405(a)(1)(iv) <input type="checkbox"/> 50.73(a)(2)(ii) <input type="checkbox"/> 50.73(a)(2)(viii)(B) <input type="checkbox"/> 20.405(a)(1)(v) <input type="checkbox"/> 50.73(a)(2)(iii) <input type="checkbox"/> 50.73(a)(2)(x)												
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)												
<input type="checkbox"/> Yes (If yes, complete Expected Submission Date) <input checked="" type="checkbox"/> No																						
ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (15)																						

During a review of Technical Specifications (TS), it was discovered that the range for startup channel indication (2JI-9000) located on the remote shutdown panel had not met the range required by TS 3.3.3.5 during Cycle 3. The startup range ex-core neutron detectors and associated signal processing equipment had been replaced during the second refueling outage. The range of 1.0E-8 to 200 percent power was chosen to supply 2JI-9000. Apparently, during the design change process, it was not recognized that this range did not satisfy the 1.0 to 1.0E5 counts per second range required by TS 3.3.3.5. During the third refueling outage the range discrepancy was corrected as a result of design modifications to bring the plant into compliance with Appendix R requirements. Organizational and procedural changes made since this design change should prevent recurrence.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)						
Arkansas Nuclear One, Unit Two		<table border="1"> <tr> <th data-bbox="1015 414 1112 446">Year</th> <th data-bbox="1112 414 1274 446">Sequential Number</th> <th data-bbox="1274 414 1393 446">Revision Number</th> </tr> <tr> <td data-bbox="1015 446 1112 478">015101013161818151--</td> <td data-bbox="1112 446 1274 478">0110--</td> <td data-bbox="1274 446 1393 478">010101210F1012</td> </tr> </table>	Year	Sequential Number	Revision Number	015101013161818151--	0110--	010101210F1012	
Year	Sequential Number	Revision Number							
015101013161818151--	0110--	010101210F1012							

TEXT (If more space is required, use additional NRC Form 366A's) (17)

During a review of Technical Specifications (TS), it was discovered that the range for startup channel indication (2JI-9000) located on the remote shutdown panel 2C80 had not met the range required by TS 3.3.3.5 during Cycle 3. The range required by TS 3.3.3.5 for 2JI-9000 is 1.0 to 1.0E5 counts per second (CPS) In refueling outage 2R2 (Fall, 1982) a design change was performed which replaced the startup range ex-core neutron detectors and associated signal processing equipment. The new instrumentation included provisions to allow for boron dilution monitoring and also was designed to satisfy the specifications of Regulatory Guide 1.97. The signal processing circuitry of the new instrumentation provided two ranges of output signals. One range was from 1.0 to 1.0E6 CPS and the other range from 1.0E-8 to 200 percent reactor power (which was incorrectly chosen to supply 2JI-9000). Apparently, during the design change process, it was not recognized that the percent reactor power range did not satisfy the range required by TS 3.3.3.5. With the percent power range in effect, the range from 1.0 to approximately 100 CPS could not be read from the remote shutdown panel.

During the next refueling outage (Fall, 1983), another design modification to bring the plant into compliance with Appendix R requirements changed the scale for 2JI-9000 correcting the range discrepancy.



ARKANSAS POWER & LIGHT COMPANY

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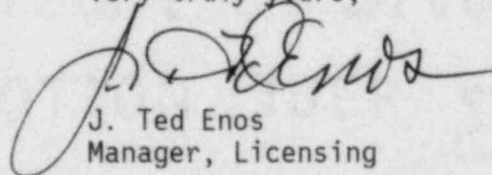
U. S. Nuclear Regulatory Commission
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Washington, D.C. 20555

Subject: Arkansas Nuclear One - Unit 2
Docket No. 50-368
License No. NPF-6
Licensee Event Report
No. 85-010-00

Gentlemen:

In accordance with 10CFR50.73(a)(2)(i), attached is the subject report concerning the discovery that the range for startup channel indication (2JI-9000) located on the remote shutdown panel had not met the range required by Technical Specification 3.3.3.5 during cycle 3.

Very truly yours,



J. Ted Enos
Manager, Licensing

JTE:RJS:ds

Attachment

cc: Mr. Norman M. Haller, Director
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