

1. Reportable Occurrence Report No. 50-313/76-27
2. Report Date: 9/28/76                      3. Occurrence Date: 9/14/76
4. Facility: Arkansas Nuclear One - Unit 1  
Russellville, Arkansas
5. Identification of Occurrence:

Exceeding power level cutoff (82.5%) without proper Xenon reactivity conditions per Technical Specification 3.5.2.5.4.

6. Conditions Prior to Occurrence:

Steady-State Power	<u>    X    </u>	Reactor Power	<u>  2055  </u>	MWth
Hot Standby	<u>          </u>	Net Output	<u>   650   </u>	MWe
Cold Shutdown	<u>          </u>	Percent of Full Power	<u>   80   </u>	%
Refueling Shutdown	<u>          </u>	Load Changes During Routine Power Operation	<u>          </u>	
Routine Startup Operation	<u>          </u>			
Routine Shutdown Operation	<u>          </u>			
Other (specify)				

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7. Description of Occurrence:

At 0637 hours on 9/14/76, the power level cutoff per Tech. Spec. Fig. 3.5.2.1B was exceeded for three (3) minutes and Xenon reactivity was not within 10% of the equilibrium value. The power increase above the power level cutoff occurred when the reactor demand station of the ICS was placed in automatic following NI calibration.

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8. Designation of Apparent Cause of Occurrence:

Design	_____	Procedure	_____
Manufacture	_____	Unusual Service Condition Including Environmental	_____
Installation/ Construction	_____	Component Failure	_____
Operator	<u>    X    </u>		
Other (specify)	<u>    X    </u>		

Due to system oscillation in feedwater control, reactor power level increased when switched from reactor demand in manual to the integrated mode of operation.

9. Analysis of Occurrence:

Due to the quick response of the operator in returning the power to below the power level cutoff, there was no hazard to the health and safety of the public.

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10. Corrective Action:

Power was reduced to < 82.5% power in approximately three (3) minutes. In the future when at or near a cutoff limit, the power level will be decreased before switching modes of operation.

11. Failure Data:

Exceeding power level cutoff was also reported in Reportable Occurrence Report 50-313/76-17, but this was due to misinterpreting computer calculation of Xenon worth.

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