

1. Non-Routine, Non-Radiological Environmental Report No. 50-313/75-50
2. Report Date: October 8, 1975 3. Occurrence Date: September 30, 1975
4. Facility: Arkansas Nuclear One-Unit 1
Russellville, Arkansas

5. Identification of Occurrence:

Chemical concentration of two parameters increased across the plant in excess of Environmental Technical Specification limits.

6. Conditions Prior to Occurrence:

Steady-State Power	<u> X </u>	Reactor Power	<u> 2440 </u> MWth
Hot Standby	<u> </u>	Net Output	<u> 795 </u> MWe
Cold Shutdown	<u> </u>	Percent of Full Power	<u> 95 </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)			

7. Description of Occurrence:

Samples taken from the intake and discharge canals and at point 20 on September 29, 1975, indicate that chemical concentrations of 2 parameters increased across the plant in excess of ETS limits:

<u>Parameter</u>	<u>Units</u>	<u>Increase</u>	<u>ETS Limits</u>
Sodium Nitrite, Intake vs. discharge	mg/l	0.023	0.005
Chlorides, Point 20 vs. discharge	mg/l	29	25

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8. Designation of Apparent Cause of Occurrence:

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

Neutralizing tank draining into discharge flume at time of sampling.

9. Analysis of Occurrence:

The neutralizing tank which contained water impurities remaining after regenerating condensate demineralizers and plant makeup water demineralizers was being drained into the discharge flume when samples were taken. No other liquid releases were in progress at the time of sampling.

10. Corrective Action:

Revision to ETS concerning chemical discharges has been prepared and submitted to the NRC for approval.

11. Failure Data:

The circumstances of this report are similar to those reported in Non-Routine, Non-Radiological Environmental Reports No. 50-313/75-28 through 50-313/75-49