

1. Non-Routine, Non-Radiological Environmental Report No. 50-313/75-44
2. Report Date: August 18, 1975 3. Occurrence Date: August 13, 1975
4. Facility: Arkansas Nuclear One-Unit 1
Russellville, Arkansas

5. Identification of Occurrence:

Chemical concentration of three 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> 2363 </u> MWth
Hot Standby	<u> </u>	Net Output	<u> </u> MWe
Cold Shutdown	<u> </u>	Percent of Full Power	<u> </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 August 12, 1975, indicate that chemical concentrations of 3 parameters increased across the plant in excess of ETS limits:

<u>Parameter</u>	<u>Units</u>	<u>Increase</u>	<u>ETS Limit</u>
Sodium Nitrite, Point 20 vs. Discharge	mg/l	0.026	0.005
Turbidity, Intake vs. Discharge	%	42.8	10.0
Ammonia, Intake vs. Discharge	mg/l	0.08	0.05

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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.
Arkansas River (discharge) more turbid than Illinois Bayou (intake).

9. Analysis of Occurrence:

The neutralizing tank contains water impurities remaining after regenerating condensate demineralizers and the plant makeup water demineralizers was being drained into the discharge flume when samples were taken. Turbid conditions of the Arkansas River are beyond control of ANO operation.

10. Corrective Action:

Revisions to ETS concerning chemical discharges have 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. 50-313/75-25 through 50-313/75-43.