

1. Non-Routine, Non-Radiological Environmental Report No. 50-313/75-55
2. Report Date: November 14, 1975 3. Occurrence Date: November 5, 1975
4. Facility: Arkansas Nuclear One-Unit 1
Russellville, Ark.

5. Identification of Occurrence:

Chemical concentration of three parameters increased across plant in excess of ETS limits.

6. Conditions Prior to Occurrence:

Steady-State Power _____	Reactor Power _____ MWth
Hot Standby _____	Net Output _____ MWe
Cold Shutdown _____ X _____	Percent of Full Power _____ %
Refueling Shutdown _____	Load Changes During Routine Power Operation _____
Routine Startup Operation _____	
Routine Shutdown Operation _____	

Other (specify)

Shutdown for control rod repatch

7. Description of Occurrence:

Samples taken from the intake and discharge canals and at pt. 20 on November 4, 1975, indicate that chemical concentrations of three parameters increased across the plant in excess of ETS limits:

Parameter	Units	Increase	ETS Limit
Turbidity, intake vs discharge	%	18.8	10
Sodiumnitrite, point 20 vs discharge	mg/l	0.023	0.005
Chlorides, point 20 vs discharge	mg/l	49	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) Neutralizing tank draining into discharge flume at time of sampling.

9. Analysis of Occurrence:

The neutralizing tank which contains water impurities remaining after regenerating condensate demineralizers and plant make up water demineralizers was being drained into the discharge flume when samples were taken. No other liquid releases were in progress at time of sampling and two circulating water pumps were running providing 375,000 gpm dilution flow.

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10. Corrective Action:

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

11. Failure Data:

The circumstances of this report are similar to those reported in Non-Routine, Non-Radiological Environmental Report 50-313/75-28 through 50-313/75-54.