

1. Non-Routine, Non-Radiological Environmental Report No. 50-313/75-34
2. Report Date: June 19, 1975 3. Occurrence Date: June 9, 1975
4. Facility: Arkansas Nuclear One-Unit 1
Russellville, Arkansas
5. Identification of Occurrence:

Chemical concentration of one parameter increased across the plant in excess of ETS 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> </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 June 9, 1975, indicate that chemical concentrations of six parameters increased across the plant in excess of ETS limits:

	<u>Unit</u>	<u>Increase</u>	<u>ETS Limit</u>
Conductivity (intake vs. discharge)	%	78.4	10
Turbidity (intake vs. discharge)	%	21	10
pH (intake vs. discharge)	pH	0.6	0.5
Chloride (point 20 vs. discharge)	mg/l	99	25
Ammonia (intake vs. discharge)	mg/l	0.57	0.05
Ammonia (point 20 vs. discharge)	mg/l	0.56	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)	_____		

Neutralizing tank draining into discharge canal at time of sampling.

9. Analysis of Occurrence:

Samples were taken when the neutralizing tank was being drained into the discharge canal. Four circulating water pumps were in operation providing approximately 750,000 gallons per minute dilution flow. No other liquid releases were in progress at time of sampling. The neutralizing tank contains water impurities remaining after regenerating condensate demineralizers.

10. Corrective Action:

We are reviewing our ETS chemical limits with the Arkansas Department of Pollution Control and Ecology. It has been determined that there is no basis for many of our ETS chemical discharge limits and that our Technical Specification water sampling program does not verify that we are or are not meeting the conditions of our permits to discharge issued by the Arkansas Pollution Control and Ecology Commission or the EPA.

11. Failure Data:

The circumstances of this report are similar to those reported in Non-Routine, Non-Radiological Reports No. 50-313/75-25 through 50-313/75-33.