

1. Non-Routine, Non-Radiological Environmental Report No. 50-313/75-45

2. Report Date: 8/21/75 3. Occurrence Date: 8/19/75

4. Facility: Arkansas Nuclear One-Unit 1
 Russellville, Arkansas

5. Identification of Occurrence:

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

6. Conditions Prior to Occurrence:

Steady-State Power X

Reactor Power 2388 MWth

Hot Standby

Net Output 785 MWe

Cold Shutdown

Percent of Full Power 93 %

Refueling Shutdown

Load Changes During Routine
Power Operation

Routine Startup
Operation

Routine Shutdown
Operation

Other (specify)

7. Description of Occurrence:

Samples taken from the intake and discharge canals and at point 20 on 8/18/75 indicate that ammonia concentration increased across the plant in excess of ETS limits:

<u>Parameter</u>	<u>Units</u>	<u>Increase</u>	<u>ETS Limit</u>
Ammonia, Intake vs. discharge canal	mg/l	0.1	0.05
Ammonia, Point 20 vs. discharge canal	mg/l	0.1	0.05

8004110 770

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 contains 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:

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 50-313/75-44.