

1. Non-Routine, Non-Radiological Environmental Report No. 50-313/75-29

2. Report Date: \_\_\_\_\_ 3. Occurrence Date: \_\_\_\_\_

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

5. Identification of Occurrence:

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

6. Conditions Prior to Occurrence:

Steady-State Power	<u> X </u>	Reactor Power	<u> 1458 </u>	MWth
Hot Standby	_____	Net Output	<u> 459 </u>	MWe
Cold Shutdown	_____	Percent of Full Power	<u> 56.8 </u>	%
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 May 19, 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 Limits</u>
Conductivity, Intake vs. Discharge	%	19.5	10
pH, Intake vs. Discharge	pH	0.6	0.5
Ammonia, Intake vs. Discharge	mg/l	0.095	0.05
Ammonia, Point 20 vs. Discharge	mg/l	0.105	0.05

8004160414

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:

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. The pH of the neutralizing tank was checked prior to release and determined to be within Technical Specification limits of 6.0 and 9.0.

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 water sampling and testing program does not verify that we are meeting or are not meeting the conditions of our permit to discharge into the Arkansas River or the conditions of the Arkansas Water Quality Standards, Regulation Number 2 (Table 2-3 in ETS).

11. Failure Data:

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