

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

2. Report Date: 1/21/75 3. Occurrence Date: 1/14/75

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

5. Identification of Occurrence:
Fish kill on intake screens exceeding 3000 pounds based on 24-hour sample period.

6. Conditions Prior to Occurrence:

Steady-State Power	<u> X </u>	Reactor Power	<u> = 2500 </u> MWth
Hot Standby	<u> </u>	Net Output	<u> 830 </u> MWe
Cold Shutdown	<u> </u>	Percent of Full Power	<u> 98 </u> %
Refueling Shutdown	<u> </u>		
Routine Startup Operation	<u> </u>		
Routine Shutdown Operation	<u> </u>		
Load Changes During Routine Power Operation	<u> </u>		
Other (Specify)	<u> X </u>		

Three circulating water pumps on for 7 hours. Four circulating water pumps on for 17 hours.

7. Description of Occurrence:

During routine fish impingement monitoring 1/14/75, using procedure 1607.10, Monitoring Fish Impinged on ANO-1 Intake Screens, 3048 pounds of fish were collected during a 24-hour sample period beginning at 8:00 a.m. on 1/13/75 and ending 8:00 a.m. 1/14/75. A mixture of gizzard and threadfin shad made up 99.9% of the total weight of fish. Other fish made up 0.1% of the total weight. Threadfin shad made up 95% of the total number of shad. Water temperature was 43°F at 8:00 a.m. 1/14/75 and ambient air temperature was 13°F.

8. Designation of Apparent Cause of Occurrence:

Design	_____	Procedure	_____
Manufacture	_____	Unusual Service	_____
Installation/ Construction	_____	Condition Including Environmental	_____
Operator	_____	Component Failure	_____
Other (Specify)	<u> X </u>		

The apparent cause was due to a natural die off of threadfin shad during the winter season.

9. Analysis of Occurrence:

The only noticeable Environmental Impact was the removal of the above mentioned fish from the lake. The fish that were collected were disposed of through land fill operation.

10. Corrective Action:

Long term studies are in progress to determine the effects of plant operation on the aquatic ecosystems of the Dardanelle Reservoir. Data from this report and other data obtained is fed back into these studies to determine what changes might be made to the studies in order to ensure that adequate data is obtained for evaluating plant impact. Review by Arkansas Power & Light Company and its consultants of the results of these studies will determine what corrective action might be taken to reduce plant effects on the Reservoir.

11. Failure Data:

The circumstances of this report are similar to those reported in Non-Routine, Non-Radiological Environmental Report Nos. 50-313/74-1 through 50-313/74-11.

12. Reviews and Approvals:

Reviewed and Approved by: Plant Safety Committee Yes (X) No ()

Plant Superintendent Yes (X) No ()

Reference: JWA-803 Date: 1/20/75

Reviewed by: Daniel H. Williams
for Donald A. Rueter Date: 1/22/75
Licensing Supervisor

Approved by: [Signature] Date: 1-23-75
Safety Review Committee

Approved by: William G. [Signature] Date: 1/23/75
Manager of Nuclear Services

Approved by: [Signature] Date: 1-23-75
Director of Power Production

Approved by: Arch P. Pettit Date: 1-29-75
Senior Vice President