

1. Non-Routine, Non Radiological Environmental Report No.. 50-313/75-15

2. Report Date: 2/21/75

3. Occurrence Date: 2/16/75

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

5. Identification of Occurrence:

Fish kill on intake screens exceeding 3000 pounds based on 8-hour sample period.

6. Conditions Prior to Occurrence:

Steady-State Power X

Reactor Power 2543 MWth

Hot Standby \_\_\_\_\_

Net Output 839 MWe

Cold Shutdown \_\_\_\_\_

Percent of Full Power 99 %

Refueling Shutdown \_\_\_\_\_

Routine Startup  
Operation \_\_\_\_\_

Routine Shutdown  
Operation \_\_\_\_\_

Load Changes During Routine Power Operation \_\_\_\_\_

Other (Specify) Four circulating water pumps were in operation.

7. Description of Occurrence:

During routine fish impingement monitoring 2/16/75, using procedure 1607.10, Monitoring Fish Impinged on ANO-1 Intake Screens, 2005 pounds of fish were collected during an 8-hour sample period from 8:00 a.m. 2/15/75 and 4:00 p.m. 2/15/75. The projected fish impingement for the 24-hour period beginning 8:00 a.m. 2/15/75 and ending 8:00 a.m. 2/16/75 was 6015 pounds. A mixture of gizzard and threadfin shad comprised 99% of the total weight. Other fish made up 1% of the total weight. Threadfin shad comprised 98% of the total number of shad.

Intake water temperature at 8:00 a.m. 2/16/75 was 45°F. The ambient air temperature was 51°F.

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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. The fish that were not collected were disposed of through the trash disposal system.

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 Reports No. 50-313/75-1 through 50-313/75-14.

12. Reviews and Approvals:

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

Plant Superintendent Yes (X) No ( )

Reference: JWA-878 Date: 2/21/75

Reviewed by: Donald A. Ruster Date: 2/21/75  
Licensing Supervisor

Approved by: James H. Woodward by W.C.M. Date: 2/24/75  
Safety Review Committee

Approved by: [Signature] Date: 2/21/75  
Manager of Nuclear Services

Approved by: James H. Woodward by W.C.M. Date: 2/24/75  
Director of Power Production

Approved by: [Signature] Date: 2/24/75  
Senior Vice President