

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

2. Report Date: 11/26/74

3. Occurrence Date: 11/18/74

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

5. Identification of Occurrence:

Fish killed on intake screens exceeding 3000 lbs. based on 24-

6. Conditions Prior to Occurrence:

Steady-State Power \_\_\_\_\_

Reactor Power 0-639

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

Net Output 0-200

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

Percent of Full Power \_\_\_\_\_

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

Routine Startup X  
Operation

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

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

Other (Specify) All four circulating water pumps were in o

7. Description of Occurrence:

During routine fish impingement monitoring 11/18/74 using proc 1607.10, Monitoring Fish Impinged on ANO Intake Screens, 3054 fish were collected during a 24-hour period. This 24-hour period was from 9:40 a.m. 11/17/74 to 9:45 a.m. 11/18/74. A mixture of threadfin and gizzard shad made up 98.8% of the total weight of fish. Other type fish made up the remaining 1.2%.

8. Designation of Apparent Cause of Occurrence:

Design	_____	Procedure	_____
Manufacture	_____	Unusual Service	_____
Installation/ Construction	_____	Condition Including Environmental	_____
Operator	_____	Component Failure	_____

Other (Specify) The apparent cause was due to a 20F decrease in temperature. The primary cause of this decrease was a 1.5 inch rain. The decrease in temperature resulted in a weakening of the shad. This caused them to become vulnerable to impingement by current.

9. Analysis of Occurrence:

The only noticeable environmental impact was the removal of the mentioned fish from the lake.

10. Corrective Action:

Corrective action was taken in accordance with procedure 1607.10. This included continuous monitoring for another 24-hour period. The findings of this 24-hour period was that only 2330 lbs. 13 oz. of fish were impinged.

11. Failure Data:

The circumstances of this report are similar to those reported in  
Non-Routine, Non-Radiological Environmental Report No. 50-313/74

12. Reviews and Approvals:

Reviewed and Approved by: Plant Safety Committee Yes (X) M  
Plant Superintendent Yes (X) M  
Reference: JWA-687 Date: 11/25

Reviewed by: Donald A. Rueter Date: 11/26/74  
Licensing Supervisor

Approved by: W. C. McClinton Date: 11/26/74  
Safety Review Committee

Approved by: William C. Ganaway Date: 11/26/74  
Manager of Nuclear Services

Approved by: James H. Woodward Date: 11/26/74  
Director of Power Production

Approved by: J. W. Phillips Date: 11/26/74  
Senior Vice President