

1. Non-Routine, Non-Radiological Environmental Report No. 50-313/74-1

2. Report Date: 11/22/74 3. Occurrence Date: 11/15/74

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

5. Identification of Occurrence:

Fish killed on intake screens exceeding 3000 pounds based on 24 hr sample

6. Conditions Prior to Occurrence:

Steady-State Power _____ Reactor Power _____ 0 _____ MW

Hot Standby _____ Net Output _____ 0 _____ MW

Cold Shutdown _____ Percent of Full Power _____ 0

Refueling Shutdown _____

Routine Startup
Operation _____

Routine Shutdown
Operation _____

Load Changes During Routine Power Operation _____

Other (Specify): All four circulating water pumps were in operation during
Hot shutdown condition.

7. Description of Occurrence:

During routine fish impingement monitoring 11/15/74, using procedure
1607.10, Monitoring Fish Impinged on ANO Intake Screens, 3196 pounds
of fish were collected during a 24 hour period. This 24 hour period
was from 11:00 A.M. 11/14/74 to 11:00 A.M. 11/15/74. Ninety-eight
and sixty five hundredths percent of these fish was a mixture of
fin and gizzard shad (98.65%). Other types of fish made up the remainder
being 1.35%.

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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)	_____		

The apparent cause was due to a decrease in water temperature from 59°F to 53°F in a three day period. This resulted in a weakening of the threadfin shad. This allowed them to become vulnerable to impingement by the intake current.

9. Analysis of Occurrence:

There was no recognizable environmental impact other than the loss of the above described fish.

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 1187.5 pounds of fish were impinged.

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11. Failure Data:

12. Reviews and Approvals:

Reviewed and Approved by: Plant Safety Committee Yes No ()
Plant Superintendent Yes No ()
Reference: _____ Date: _____

Reviewed by: Donald A. Ruster Date: 11/25/74
Licensing Supervisor

Approved by: James Howard Date: 11-25-74
Safety Review Committee

Approved by: William O'Rourke Date: 11/25/74
Manager of Nuclear Services

Approved by: James Howard Date: 11-25-74
Director of Power Production

Approved by: Bob Pratt Date: 11-25-74
Senior Vice President

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