1. Non-Routine, Non-Radiological Environmental Report No. 50-313/74-6

2. Report Date: 12/11/74

3. Occurrence Date: 12/5/74

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

5. Identification of Occurrence:

Fish kill on Intake Screens exceeding 3000 pounds based on one 8-hour sample period.

6. Conditions Prior to Occurrence:

Steady-State Power X

Hot Standby

Cold Shutdown

Refueling Shutdown

Routine Startup Operation

Routine Shutdown Operation

Reactor Power 2163 MWth

Net Output 712 MWe

Percent of Full Power 84 %

Load Changes During Routine Power Operation

Other (Specify) 4 circulating water pumps were in operation.

7. Description of Occurrence:

During routine fish impingement monitoring 12/5/74, using procedure 1607.10 (Monitoring Fish Impinged on ANO Intake Screens), 1790 pounds of fish were collected during an 8-hour sample period. The projected fish kill for the 24-hour period beginning at 8:00 a.m. 12/5/74 and ending at 8:00 a.m. 12/6/74 was 5370 based on the 8 hour sample. A mixture of gizzard and threadfin shad made up 99.9% of the total weight of fish. Other fish made up .1% of the total weight. Threadfin shad made up 95% of the total number of shad.

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8. Designation of Apparent Cause of Occurrence:

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

The apparent cause was due to a decrease in lake water temperature caused by cold weather.

9. Analysis of Occurrence:

The only noticeable Environmental Impact was the removal of the al mentioned fish from the lake. The fish that were collected were disposed of through landfill 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 plan operation on the aquatic ecosystems of the Dardanelle Reservoir. from this report and other data obtained is fed back into these st 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 AP&L and its consultants of the results of these studies determine what corrective action might be taken to reduce plant ef on the Reservoir.

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11. Failure Data:

The circumstances of this report are similar to those reported in Non-Routine, Non-Radiological Environmental Reports 50-313/74-1, 50-313/74-2, 50-313/74-3, 50-313/74-4, and 50-313/74-5.

12. Reviews and Approvals:

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

Plant Superintendent Yes (X) No ( )

Reference: JWA-715 Date: 12/9/74

Reviewed by: Donald A. Rueter Date: 12/11/74
Licensing Supervisor

Approved by: [signature] Date: 12-12-74
Safety Review Committee

Approved by: William Cramond Date: 12/11/74
Manager of Nuclear Services

Approved by: [signature] Date: 12-12-74
Director of Power Production

Approved by: [signature] Date: 12/13/74
Senior Vice President