

Fish shall be disposed of in a manner consistent with U. S. Environmental Protection Agency, Arkansas Department of Pollution Control and Ecology and Arkansas Game and Fish Commission guidelines.

#### Reporting Requirement

Monthly results from this study shall be submitted to the NRC, Division of Reactor Licensing, no later than 30 days after the end of the reporting month. The reports shall contain the following information: the date of the sample, the species collected, the number or estimated number impinged in 24 hours for each species, the modal length (in mm) for each species, the maximum length (in mm) for each species, the modal weight (in g) for each species, and the number of pumps operating during each sample collection.

A summary of the impingement results shall be included in the report required by Specification 5.6.1.

#### Bases

The purpose of this program is to permit accomplishment of the specification objective. Surveillance frequency is based on previous surveillance data at Arkansas Nuclear One indicating large impingements during the period October through March. Subsampling is done to reduce the sampling effort and replicates are taken to reduce subsampling error. Length and weight determinations are made to determine impingement selectivity.

#### (3) Entrainment of Ichthyoplankton

##### Objective

The objective of the entrainment study is to determine the effects of operation of the Circulating Water System on the ichthyoplankton.

##### Specification

A sampling program shall be implemented to determine estimated numbers of ichthyoplankton passing through the Circulating Water System. It shall be assumed that those organisms passing through the system undergo a 100% mortality. Intake samples shall be taken in the intake canal. Physiochemical parameters to be monitored at sampling shall include water temperature, dissolved oxygen and pH. Ichthyoplankton shall be sampled monthly during the months of April through September. Samples shall be taken over 24-hour periods at eight-hour intervals.

The samples shall be taken at surface, mid-depth, and near bottom at the intake by a metered plankton net. As an alternative, a high capacity pump sampler shall be used to take samples at surface, mid-depth, and near bottom.

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Specimens collected shall be identified to the lowest possible taxonomic level and densities shall be calculated.

Reporting Requirement

Report levels shall be developed from the data collected at the conclusion of the first year study. A summary of the entrainment study shall be included in the report required by Specification 5.6.1.

Bases

This study and subsequent analysis of the results will aid in determining the impact on the Fishery of Dardanelle Reservoir. Losses in recruitment to the reservoir may or may not be significant. This study should provide a pathway for making such an assessment.