

## **Hydroacoustic Monitoring of Fish Passage at Ice Harbor Dam, relative to the Removable Spillway Weir**

Placeholder for 2005 Research

AFEP Study Code: SBE-W-05-1

This work will be accomplished by contract through the Walla Walla District's Professional Services Contracts with Battelle and Normandeau.

Project Summary: Fish passage will be monitored with fixed hydroacoustics at turbine intakes, conventional spillbays and the Removable Spillway Weir (RSW).

Study Objective: Assess relative fish passage at the RSW under different powerhouse and spillway operations (to be decided in the future).

An RSW will be installed at Ice Harbor spillbay 2 by April 1, 2005. Specific operations for evaluating the RSW have not been agreed upon at this time. It is likely that the RSW will be operated with some level of "training spill" as one treatment. Possible other treatments include RSW operation with different levels of training spill, a "BiOp" condition, or a "bulk spill" condition.

Hydroacoustic transducers will be placed on each of the 9 non-RSW spillbays, at least one turbine intake bay per unit, and likely multiple transducers on the RSW. Transducer placement will be such that representative samples will be obtained for turbine, spillway and RSW passage. Specific deployments will be determined through a formal contracting proposal process.