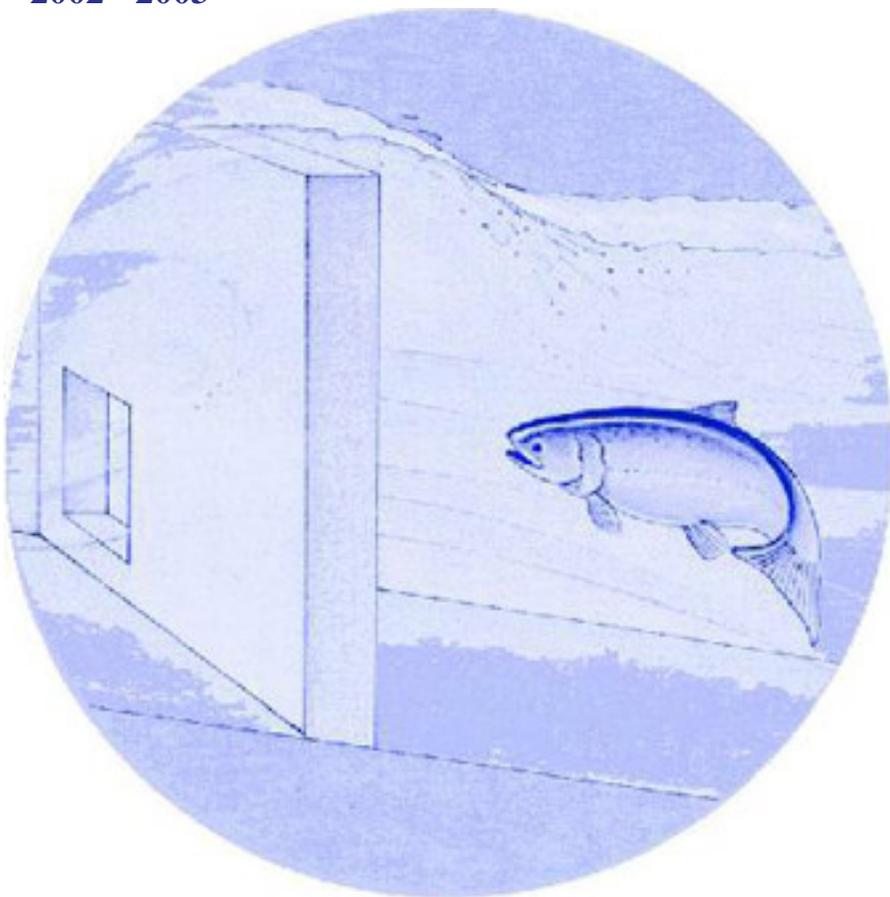


# Yakima/Klickitat Fisheries Project Phase II Fish Screen Operation and Maintenance

Washington Department of Fish and Wildlife

Annual Report  
2002 - 2003



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# **YKFP PHASE II FISH SCREEN OPERATION & MAINTENANCE (O&M)**

## **2003 ANNUAL REPORT**

by

WASHINGTON DEPARTMENT OF FISH AND WILDLIFE  
HABITAT PROGRAM  
TECHNICAL APPLICATIONS DIVISION  
FISH SCREENING SECTION

Prepared for:

US Department of Energy  
Bonneville Power Administration  
Fish and Wildlife Program

PROJECT IDENTIFICATION 1992-009-00  
PROJECT CONTRACT NUMBER 00004111  
PROJECT SUBBASIN YAKIMA

## **GOAL**

The goal of this project is to assure that the benefits of BPA's capital investment in Yakima Basin Phase II fish screen facilities are realized by performing operations that assure optimal fish protection and long facility life through a rigorous preventative maintenance program, while helping to restore ESA listed fish stocks in the Yakima River Basin.

## **BACKGROUND**

The WDFW has been actively involved with Yakima River Basin Phase II screen O&M for the last ten years (1993), the start of the Phase II Screening Program. Yakima Fish Screen Phase II O&M, project # 199200900, was originally started with Intergovernmental Agreement # DE- BI79-93BP71031 effective April 1, 1993. In 1994, a Memorandum of Agreement (MOA) between BPA, BOR, and WDFW was drafted and agreed upon (BPA # 95AI37444, BOR # 1425-4-MA-10-00840, WDFW# 241-950010). This MOA, through the use of an Annual Work Plan (AWP), assigns specific duties to WDFW for O&M of Phase II facilities and is funded by BPA through master contract #, 000041111.

## **TASKS AND ACCOMPLISHMENTS**

### **Operation and Maintenance Yakima Basin Phase II Fish Screens**

(See assigned facilities, page 5)

**Schedule:** 2003 Yakima River Basin Irrigation Season

#### **Task 1.1 Spring Startup Functions (Jan-Mar)**

**Deliverable:** O&M crews will perform correction of any deficiencies that could not be addressed during prior years winter maintenance period. Includes setting and sealing fish screens in preparation for water diversion, ensuring that they meet current state and federal fish screening criteria. Ensuring that all systems, (i.e. electrical, mechanical, etc.) are operational, and coordinate with irrigators on start up procedures.

**Status:** Complete

#### **Task 1.2 Routine Inspections and Maintenance (Apr-Oct)**

**Deliverable:** O&M crew will provide weekly operation inspections, providing irrigators guidance in proper operation there by ensuring compliance with state and federal fish passage criteria, provide minor maintenance, contractor (irrigator) monitoring, emergency repairs, removal of seasonal silt accumulations, and record keeping.

**Status:** Complete

### **Task 1.3 Fall Annual Inspections (Nov-Dec)**

**Deliverable:** O&M crew will provide removal of seasonally accumulated sand, silt, and debris. They will also complete comprehensive inspection/evaluations of all facilities looking at structural and mechanical components for wear and serviceability. Perform scheduled maintenance, major and minor repairs, and/or replacements of fish screen components, and winterization.

**Status:** Complete

### **Task 1.4 Contractor Reimbursements**

**Deliverables:** O&M staff will verify and processing invoices submitted for payment by contractors, (irrigators) for costs over and above their historic operation and maintenance costs incurred during the irrigation season. Base historical costs are established in O&M contracts negotiated by the BOR with individual irrigators.

**Status:** To date \$ 4,700 has been paid out.

### **Task 1.5 Participation in Annual Work Plan (AWP) Meeting**

**Deliverables:** O&M staff will participate in the AWP meeting, providing updates of season activities, review evaluation of monitored sites, consult on assignment of new or reassigned sites, and provide written annual reports.

**Status:** Complete; attended meeting on February 4, 2003.

### **Task 1.6 Annual Report**

**Deliverables:** O&M staff will prepare an annual report that summarizes accomplishments for the performance period. Two copies of the report will be submitted to the BPA Project Manager/COTR. The report will also be uploaded to the BPA Fish and Wildlife web site, following guidance provided at the site for document format, title page, authors, etc.

**Status:** Complete and submitted.

**Additional Activities:** Snipe & Allen Facility: The annual inspection of the gantry indicated the need for repair of the protective coating (paint). The gantry will be disassembled, sand blasted, recoated with an environmentally suitable paint, and reinstalled prior to the start of the 2004 irrigation season.

**Additional information:** This contract and project is directly linked to contract # 00000026-00001, project # 95-33 "O&M Of Yakima Phase II Fish Facilities" administered by the Bureau of Reclamations, (BOR). Measurable benefits of proper operation and maintenance of fish screening facilities is being documented through an on-going evaluations program conducted under Project # 198506200 by Pacific Northwest National Laboratory (PNNL).

## YAKIMA BASIN PHASE II FISH SCREEN FACILITIES

Facility	Type
1. Anderson	Portable Drum
2. Emerick	Portable Drum
3. Fruitvale	Fixed Panel
4. Gleed	Belt
5. Kelly-Lowry	Drum
6. Mason-Hays (Brewer)	Drum-PW
7. Naches-Cowiche	Drum
8. Nache-Selah	Fixed Panel
9. New Cascade	Drum
10. Holmes	Portable Drum
11. Snipes-Allen	Drum
12. Stevens	Drum-PW
13. Taylor	Drum
14. Bull	Fixed Panel
15. Ellensburg Mill	Fixed Panel
16. Clark Hydraulic Drive	Drum-PW
17. Lindsey	Drum
18. Union Gap	Fixed Panel
19. Congdon	Drum
20. Old Union	Fixed Panel
21. Younger Hydraulic Drive	Fixed Panel-PW
22. Chapman Nelson	Portable Drum
23. Bull/Wilson	Portable Drum
24. Powell/LaFortune	Drum
25. Selah Moxee	Plate
26. Lewis	Portable Drum

Note: Site # 25 Selah Moxee was the only new site to become operational for the 2003 irrigation season.