

**Bonneville Power Administration
Fish and Wildlife Program FY99 Proposal**

Section 1. General administrative information

Yakima Phase II Screens - Construction

Bonneville project number, if an ongoing project 9107500

Business name of agency, institution or organization requesting funding
US Bureau of Reclamation

Business acronym (if appropriate) USBOR

Proposal contact person or principal investigator:

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Subcontractors.

Organization	Mailing Address	City, ST Zip	Contact Name
Washington Department of Fish and Wildlife	PO Box 9155	Yakima WA 98909	John Easterbrooks

NPPC Program Measure Number(s) which this project addresses.
7.11B.1

NMFS Biological Opinion Number(s) which this project addresses.

Other planning document references.

Subbasin.
Yakima

Short description.

Install new fish screens at all significant diversions in the Yakima River Basin to keep juvenile salmon and steelhead from being diverted and lost in canals during outmigration. Improve adult upstream passage at selected sites.

Section 2. Key words

Mark	Programmatic Categories	Mark	Activities	Mark	Project Types
X	Anadromous fish	X	Construction	X	Watershed
+	Resident fish		O & M		Biodiversity/genetics
	Wildlife		Production		Population dynamics
	Oceans/estuaries		Research		Ecosystems
	Climate		Monitoring/eval.		Flow/survival
	Other		Resource mgmt		Fish disease
			Planning/admin.		Supplementation
			Enforcement		Wildlife habitat enhancement/restoration
			Acquisitions		

Other keywords.

passage facilities

Section 3. Relationships to other Bonneville projects

Project #	Project title/description	Nature of relationship
9503300	O&M of Yakima Fish Protection, Mitigation & Enhancement Facilities.	Provides on-going operation and maintenance activities at completed screens.
9200900	Yakima Screens - Phase II - O&M	Provides on-going operation and maintenance activities at completed screens.
9105700	Yakima Phase II Screen Fabrication	Provides fabrication and installation of screens and other mechanical and metalwork items at Phase II screen sites.

Section 4. Objectives, tasks and schedules

Objectives and tasks

Obj	Task

1,2,3	Objective	a,b,c	Task
1	Provide screens at all Phase II diversion sites that will meet current agency design criteria for effective fish protection and passage.	a	Develop schedules and budgets and coordinate project implementation
		b	Develop conceptual plans and obtain consensus of all interested parties at each site
		c	Prepare designs and specifications
		d	Award construction contracts and supervise and administer construction.

Objective schedules and costs

Objective #	Start Date mm/yyyy	End Date mm/yyyy	Cost %
1	10/1992	5/2001	99.99%
			TOTAL 99.99%

Schedule constraints.

Canal system consolidation proposals must be implemented by January 1999 or else we must proceed to screen existing diversions. Water rights uncertainties must be resolved by Jan 1999 or else we will proceed with sizing based on historical diversions.

Completion date.

2001

Section 5. Budget

FY99 budget by line item

Item	Note	FY99
Personnel	Direct labor for project coordination, design, contract administration, construction supervision	\$400,000
Fringe benefits		\$140,000
Supplies, materials, non-		\$5,000

expendable property		
Operations & maintenance		
Capital acquisitions or improvements (e.g. land, buildings, major equip.)		
PIT tags	# of tags:	
Travel		\$50,000
Indirect costs	19.5% of direct labor + benefits	\$105,000
Subcontracts	Construction contracts	\$780,000
Other		\$20,000
TOTAL		\$1,500,000

Outyear costs

Outyear costs	FY2000	FY01	FY02	FY03
Total budget	\$1,000,000	\$1,000,000		
O&M as % of total				

Section 6. Abstract

All Phase II diversion sites will be screened to meet current agency design criteria for effective fish protection and fish passage by the year 2001. The target objectives of adequate juvenile fish passage are designed to meet three criteria which will: (1) reduce delay to a degree approaching zero; (2) reduce the possibility of injury to a degree approaching zero; and (3) allow fish to pass with little additional expenditure of energy. Selected Phase II screens have been (and others will be) monitored and evaluated using live fish to determine effectiveness of the new screens.

This program directly relates to measure 7.11B.1 of the 1994 Columbia Basin Fish and Wildlife Program as amended in 1995.

Section 7. Project description

- a. Technical and/or scientific background.**

- b. Proposal objectives.**

- c. Rationale and significance to Regional Programs.**

d. Project history

Planning Report completed in FY1990. Preliminary and final design initiated in FY1990-91. First construction initiated in FY1992. As of the end of FY1997, construction of screens, consolidation of ditches, elimination of diversions or other corrective measures are complete on about 80% (55) of the Phase II diversions. About 40% of the sites have been eliminated due to non-use or have been screened by the Washington Department of Fish and Wildlife using small prefabricated modular screen units. Data collection, preliminary and final design is underway on the remaining 15 sites. Uncertainties in the consolidation process continue to delay construction of some new screens until final consolidation plans are made and funding is secured. Water rights adjudication has delayed construction at some sites because of uncertainties in selecting appropriate design flows. Difficulties in securing rights-of-way at some sites (particularly on the YIN reservation) has delayed and may continue to delay construction at some sites. We are proceeding with preliminary design work at all sites so that there will be enough lead time to prepare final designs and award contracts for construction once consolidation and water rights decisions are firmed up.

e. Methods.

f. Facilities and equipment.

g. References.

Section 8. Relationships to other projects

The Phase II program is facilitated by the Yakima Fish Passage Technical Work Group. This group consists of representatives from BPA, BOR, NMFS, WDFW, CBFWA, CRITFC, Yakama Indian Nation, Yakima River Basin Association of Irrigation Districts, and other state, Federal and local agencies and interested individuals.

Section 9. Key personnel

Section 10. Information/technology transfer

Design standards and criteria are updated frequently to reflect lessons learned at earlier sites. We participate in the Annual Fish Screen Workshop to share information with others working on fish passage issues in the western U.S.