

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

Section 1. General administrative information

O&M of Yakima Fish Protection, Mitigation & Enhancement Facilities

Bonneville project number, if an ongoing project 9503300

Business name of agency, institution or organization requesting funding
U.S. Bureau of Reclamation

Business acronym (if appropriate) USBR

Proposal contact person or principal investigator:

Name	<u>Jim Faith</u>
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Subcontractors. List one subcontractor per row; to add more rows, press Alt-Insert from within this table

Organization	Mailing Address	City, ST Zip	Contact Name
Wapato Irrigation Project	S. Camas Ave	Wapato, WA 98951	Roger Henderson
Ahtanum Irrigation District	7502 Sky View Ct	Yakima, WA 98903	George Marshall

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

7.4K.1

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

N/A

Other planning document references.

If the project type is "Watershed" (see Section 2), reference any demonstrable support from affected agencies, tribes, local watershed groups, and public and/or private

landowners, and cite available documentation.

N/A

Subbasin.

Yakima River

Short description.

Provide for operation & maintenance of BPA owned anadromous fish protective and trapping facilities within the Yakima River Basin. Facilities include several irrigation diversion fish screens and one major adult fish trapping complex.

Section 2. Key words

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

Other keywords.

Fish Protection, fish monitoring, fish trapping

Section 3. Relationships to other Bonneville projects

Project #	Project title/description	Nature of relationship
9107500	Yakima Phase II Screen Construction	Design and construction of Phase II facilities is being funded by BPA and administered by Reclamation under this project #.
9200900	Yakima-Klickitat Production Project Phase II Fish Screens O&M	O&M of Phase II facilities is being accomplished through a cooperative effort between Reclamation and Washington Dept of Fish & Wildlife. WDFW is performing

		their work under this project #.
9105700	Yakima Phase II Screen Fabrication	Washington Dept of Fish & Wildlife is fabricating drumscreens for Phase II facilities under this project #.
8506200	Passage Improvement Evaluation	Battelle Pacific NW Laboratories is monitoring and evaluating the effectiveness of Phase II facilities under this project #.

Section 4. Objectives, tasks and schedules

Objectives and tasks

Obj 1,2,3	Objective	Task a,b,c	Task
1	Maintain the effectiveness of anadromous fish protective and trapping structures.	a	Provide a comprehensive facility O&M program.

Objective schedules and costs

Objective #	Start Date mm/yyyy	End Date mm/yyyy	Cost %
1	10/98	9/99	100

Schedule constraints.

There are currently 23 BPA owned Yakima Phase II fish facilities under the custody of Reclamation, with 6 additional sites scheduled for construction completion during 1998. This may increase to 60 or more when Phase II construction is complete in approximately the year 2003, depending on the timing and level of construction funding provided by BPA. The actual O&M work schedule and associated costs will depend on the rate that these facilities are brought on-line.

Completion date.

This work is being performed under an intergovernmental contract between Reclamation and BPA that expires January 31, 2000 (BPA contract no. 95 AI 37444). However, facility O&M needs will continue for the life of these facilities, thus contract renewal will most likely take place.

Section 5. Budget

FY99 budget by line item

Item	Note	FY99
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Personnel		
Fringe benefits		
Supplies, materials, non-expendable property		20,000
Operations & maintenance		185,000
Capital acquisitions or improvements (e.g. land, buildings, major equip.)		
PIT tags	# of tags:	
Travel		
Indirect costs		
Subcontracts		15,000
Other		
TOTAL		\$220,000

Outyear costs

Outyear costs	FY2000	FY01	FY02	FY03
Total budget	230,000	240,000	250,000	260,000
O&M as % of total	100	100	100	100

Section 6. Abstract

Yakima River basin anadromous fish populations once supported significant tribal and non-tribal harvests. However these populations have declined to where only minimal tribal harvests are allowed, and to where some stocks may be headed for eventual extinction without intervention. In accordance with the Pacific Northwest Electric Power Planning and Conservation Act, BPA is funding the design, construction, operation and maintenance of fish protective and monitoring facilities in the Yakima River Basin as part of a program to mitigate impacts to anadromous fish by BPA owned mainstem Columbia River structures. Facilities include irrigation diversion fish screens and one major adult fish trapping complex. These structures are intended to help reverse this decline by monitoring and controlling adult anadromous fish movement, and by preventing fish from moving into and thus being lost in dead-end irrigation system waterways. Migrating smolt are particularly prone to follow water currents into these dead-end waterways. A good O&M program is needed to closely monitor and properly maintain these facilities to assure that fish are being monitored and protected. Approximately 60 facilities are planned for construction or modification by the year 2003. Construction has been completed and O&M begun on 23 facilities to date, with 6 more expected to come on-line by the end of 1998. As sites are brought on-line, custody is assigned to Reclamation for operation and maintenance, with BPA reimbursing Reclamation for all costs via an intergovernmental contract funded by their fish & wildlife program.

Section 7. Project description

a. Technical and/or scientific background.

BPA is funding the design, construction, operation and maintenance of fish protective and monitoring facilities in the Yakima River Basin as part of a program to mitigate impacts to anadromous fish by BPA owned mainstem Columbia River structures. Facilities include irrigation diversion fish screens and one major adult fish trapping complex. Up to 60 facilities are planned for construction or modification by the year 2003. Construction has been completed and O&M begun on 23 facilities to date, with 6 more expected to come on-line by the end of 1998. As sites are brought on-line, custody is assigned to Reclamation for operation and maintenance, with BPA reimbursing Reclamation for all costs via an intergovernmental contract. This proposal provides funds for that intergovernmental contract.

b. Proposal objectives.

The overall objective is to restore target anadromous fish stocks to self-sustaining and harvestable levels in the Yakima River Basin by protecting, monitoring and controlling fish living in and/or moving through river basin waterways. This program serves to assure the effectiveness of fish protective and trapping structures built to serve this objective by providing a comprehensive facility O&M program. Biological results are being monitored and reported by other agencies and organizations, including the Yakama Indian Nation, Battelle Pacific NW Laboratories, Washington Dept. of Fish & Wildlife, and National Marine Fisheries Service.

c. Rationale and significance to Regional Programs.

This project is being funded by BPA as part of a plan to mitigate impacts to anadromous fish by BPA owned mainstem Columbia River structures.

d. Project history

Construction of Phase II facilities began in 1992. The intergovernmental contract that assigns O&M responsibilities to Reclamation has a performance period running from February 1, 1995 through January 31, 2000. Renewal of this contract in the year 2000 is expected. Construction has been completed and O&M assigned to Reclamation on 23 facilities to date, with 6 more expected to come on-line by the end of 1998. Approximately 60 facilities are planned for construction or modification by the year 2003. O&M costs have averaged approximately \$182,000/year.

e. Methods.

Tasks are being accomplished using Reclamation and Washington Dept. of Fish & Wildlife personnel and equipment, and subcontractors including impacted irrigation districts. Reclamation also provides administrative and specialized craft & equipment support for tasks assigned to the Washington Dept. of Fish & Wildlife.

f. Facilities and equipment.

Tasks are being accomplished using existing Reclamation and Washington Dept. of Fish & Wildlife facilities and equipment. Both entities have well-established fish facility O&M programs, with necessary vehicles, equipment, office space and large well-equipped maintenance shops. No additional facilities or equipment are needed for this project.

g. References.

N/A

Section 8. Relationships to other projects

The Yakima Phase I fish facility construction program which took place from 1985 through 1990 provided for screening major Yakima River Basin irrigation diversions, whereas the current ongoing Phase II construction program which started in 1992 and is due to be completed by the year 2003 is providing for screening of minor diversions. BPA funded most Phase I design and construction costs whereas Reclamation is funding all Phase I O&M costs. BPA is funding all Phase II construction and O&M costs.

Section 9. Key personnel

No one is directly employed on this project. Rather this work is accomplished as part of a larger Reclamation Yakima Projects Office fish facility maintenance program. The Yakima Projects Office has a staff of approximately twenty craft personnel and supervisors who's primary skills and responsibilities are O&M of fish facilities, plus staff engineers, biologists, and other professionals who are available when needed. (Est FTE = 2).

Section 10. Information/technology transfer

Biological results are being monitored and reported by other agencies and organizations, including the Yakama Indian Nation, Battelle Pacific NW Laboratories, Washington Dept. of Fish & Wildlife, and National Marine Fisheries Service. Also, the Yakima Technical Work Group (TWG) serves as a forum for sharing information. This workgroup is made up of engineers, biologists, irrigators and other interested persons and organizations

(including BPA and Reclamation), and meets several times during the year to provide Yakima River Basin fish program oversight and to discuss project progress and direction, including reviewing new information arising out of site O&M activities.