PART I - ADMINISTRATIVE

Section 1. General administrative information

Title of project

Multi-Year Plan Klickitat Anadromous Fish Plan

BPA project number: 20525
Contract renewal date (mm/yyyy): ☐ **Multiple actions?**

Business name of agency, institution or organization requesting funding

Business acronym (if appropriate) CBFWA

Proposal contact person or principal investigator:

Name	Tom Giese
Mailing Address	
City, ST Zip	
Phone	503-229-0191
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NPPC Program Measure Number(s) which this project addresses

FWS/NMFS Biological Opinion Number(s) which this project addresses

Other planning document references

Short description

Target species

Section 2. Sorting and evaluation

Subbasin
Klickitat

Evaluation Process Sort

CBFWA caucus	Special evaluation process	ISRP project type
Mark one or more caucus	If your project fits either of these processes, mark one or both	Mark one or more categories
☐ Anadromous fish	☐ Multi-year (milestone-based	☐ Watershed councils/model watersheds

☐ Resident fish ☐ Wildlife	evaluation) ☐ Watershed project evaluation	☐ Information dissemination ☐ Operation & maintenance ☐ New construction ☐ Research & monitoring ☐ Implementation & management ☐ Wildlife habitat acquisitions

Section 3. Relationships to other Bonneville projects

Umbrella / sub-proposal relationships. List umbrella project first.

Project #	Project title/description
20525	MYP Klickitat Anadromous Fish Plan
9506800	Fund integrated watershed analysis to identify, design, construct improveme
9705600	Riparian and in-channel habitat enhancement project.

Other dependent or critically-related projects

Project #	Project title/description	Nature of relationship

Section 4. Objectives, tasks and schedules

Past accomplishments

Year	Accomplishment	Met biological objectives?

Objectives and tasks

Obj 1,2,3	Objective	Task a,b,c	Task
1	Improve adult pre-spawning survival.	a	Place higher emphasis on passage, water quality and quantity, and other long-term tangible habitat improvement measures.
2	Improve juvenile (egg to smolt) survival.	a	Place higher emphasis on passage, water quality and quantity, and other long-term tangible habitat improvement measures.
3	Improve adult and juvenile passage.	a	Place higher emphasis on passage, water quality and quantity, and other long-term tangible habitat improvement measures.
4	Release additional genetically-appropriate salmon in the subbasin.	a	Yakima/Klickitat Fisheries Plan will manage planning supplementation projects to restore and enhance stock and stock status, focusing on areas mae accessible by

			habitat improvements.

Objective schedules and costs

Obj #	Start date mm/yyyy	End date mm/yyyy	Measureable biological objective(s)	Milestone	FY2000 Cost %
				Total	0.00%

Schedule constraints

Completion date

Section 5. Budget

FY99 project budget (BPA obligated):

FY2000 budget by line item

Item	Note	% of total	FY2000
Personnel		%0	
Fringe benefits		%0	
Supplies, materials, non-expendable property		%0	
Operations & maintenance		%0	
Capital acquisitions or improvements (e.g. land, buildings, major equip.)		%0	
NEPA costs		%0	
Construction-related support		%0	
PIT tags	# of tags:	%0	
Travel		%0	
Indirect costs		%0	
Subcontractor		%0	
Other		%0	
TOTAL BPA FY2000 BUDGET REQUEST			$ 0

Cost sharing

Organization	Item or service provided	% total project cost (incl. BPA)	Amount ($)
		%0	
		%0	
		%0	
		%0	

Total project cost (including BPA portion)	$ 0

Outyear costs

	FY2001	FY02	FY03	FY04
Total budget				

Section 6. References

Watershed?	Reference
☐	Draft Multi-Year Anadromous Fish Plan, CBFWA, February 4, 1998
☐	FY1999 Draft Annual Implementation Work Plan, Vol. 1 Tab. 5, CBFWA May 13, 1998
☐	
☐	

PART II - NARRATIVE

Section 7. Abstract

(Replace this text with your response in paragraph form)

Section 8. Project description

a. Technical and/or scientific background

(Replace this text with your response in paragraph form)

b. Rationale and significance to Regional Programs

The Klickitat River Subbasin on the east slope of the Cascade Mountains in south-central Washington covers approximately 1,350 square miles. The Klickitat River originates in Yakima County and runs generally southward for 95.7 miles to the Columbia River. The topography ranges from rolling hills and plateaus in the south to rugged mountains in the northwest.

About 75 percent of the subbasin is forested. Forestry and agriculture dominate the economy. The Yakama Indian Nation, private individuals, and the state of Washington are the major landowners.

The primary native anadromous fish species targeted for active management in the Klickitat Subbasin are spring and fall chinook, summer steelhead, and coho. The goal for these species is to restore sustainable, naturally producing populations to support tribal and non-tribal harvest and cultural and economic practices while protecting the biological integrity and the genetic diversity of the watershed.

Several ecosystem problems are present in the Klickitat Subbasin. For example: spring chinook access to habitat in the upper Klickitat River is impacted by a barrier dam at Klickitat Hatchery and passage is impeded at Castile Falls (RM 64). Poor design and maintenance of forest road crossings in the Little Klickitat River inhibits passage of steelhead and resident salmonids in tributaries and inhibits winter rearing and egg-fry survival for various species of salmonids (especially in the Little Klickitat and left-bank tributaries of the Klickitat). Summer flows are low in low elevation tributaries which have over appropriated water rights. Nutrients from farming and a sewage treatment outfall on the Little Klickitat River cause excessive algal growth, and other small tributaries share similar problems. Sediment from glacial runoff from Mt. Adams, combined with insufficient large woody debris and stream channel complexity reduces holding areas and rearing success.

c. Relationships to other projects

The ongoing work continues to provide critical information for the planning and implementation of strategic actions to achieve the objectives. Project #8903000 (ended in FY 1998) evaluated the effect of acclimation on spring chinook smolt survival – supporting the use of acclimation for supplementation actions.

d. Project history (for ongoing projects)

(Replace this text with your response in paragraph form)

e. Proposal objectives

The following outcome-based objectives have been defined for the Klickitat Subbasin: 1) improve adult pre-spawning survival; 2) improve juvenile (egg to smolt) survival; 3) improve adult and juvenile passage; and, 4) release additional genetically-appropriate salmon in the subbasin. Several broad strategies have been defined to achieve these objectives. These include placing a higher emphasis on passage, water quality and quantity, and other long-term tangible habitat improvement measures. The Yakima/Klickitat Fisheries Plan serves as a management structure for planning supplementation projects to restore and enhance stock and stock status, focusing on areas made accessible by habitat improvements.

Specific actions needed to carry out the management strategy include habitat improvement through inventory of culverts and diversions, passage improvements (e.g., Little Klickitat and Castile Falls), habitat restoration projects, and monitoring and evaluation. Project #9506800 provides funding for an integrated watershed analysis to produce information needed to identify necessary passage and habitat improvements including design and construction of identified projects. Project #9705600 is a riparian and in-channel habitat enhancement project. The anadromous fish co-managers (WDFW and YIN) continue discussions to develop and implement a water conservation plan for the Klickitat Subbasin including strategies to purchase water rights. Using artificial production to supplement natural production and to increase harvest opportunities is being implemented under the YKFP.

f. Methods

(Replace this text with your response in paragraph form)

g. Facilities and equipment

(Replace this text with your response in paragraph form)

h. Budget

(Replace this text with your response in paragraph form)

Section 9. Key personnel

(Replace this text with your response in paragraph form)

Section 10. Information/technology transfer

(Replace this text with your response in paragraph form)

Congratulations!