

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

Section 1. General administrative information

**Policy/Technical Involvement & Planning For
YKFP**

Bonneville project number, if an ongoing project 9506404

Business name of agency, institution or organization requesting funding
Washington Department of Fish and Wildlife

Business acronym (if appropriate) WDFW

Proposal contact person or principal investigator:

Name Bill Hopley
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Subcontractors.

Organization	Mailing Address	City, ST Zip	Contact Name
Hatchery Operations Consulting	424 East X. Street	Tumwater, WA. 98501	Robert C. Hager

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

7.4K; 2.2A, 2.2H, 7.2D

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

none

Other planning document references.

Wy Kan Ush Me Wa Kush Wit, Volume II, p. 59 and Table SP4; Columbia River Fish Management Plan, Appendix B; Columbia Basin System Planning Salmon and Steelhead Production Plan, Yakima River Subbasin, p. 104

Subbasin.
Yakima River

Short description.

Provide for WDFW participation in all aspects of YKFP management in terms of policy and the impact of technical matters on policy.

Section 2. Key words

Mark	Programmatic Categories	Mark	Activities	Mark	Project Types
X	Anadromous fish		Construction		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
		X	Planning/admin.	X	Supplementation
			Enforcement		Wildlife habitat enhancement/restoration
			Acquisitions		

Other keywords.

Adaptive management, policy/technical support

Section 3. Relationships to other Bonneville projects

Project #	Project title/description	Nature of relationship
8812001	YIN Yakima/Klickitat Project Management	Provides for YIN policy and technical planning and coordination for the Project. Sets goals and objectives for project management and monitoring and evaluation of the YKFP
9701300	Yakima Cle Elum Hatchery O&M	Operation of the experimental supplementation to test the assumption that supplementation is an effective rebuilding approach
9506402	Upper Yakima Species Interactions Studies	Established the biological baseline for spawning, rearing, and production of rainbow trout, steelhead, spring chinook salmon, and non-target species that may be important effectors or respond to

		supplementation.
9506405	Further Development of the "NIT" and "LNIT" Strategies for the YKFP	Provides for field testing and final definition of the new innovative treatments to be used for fish rearing to produce individuals with traits similar to their wild counterparts.
9506406	Monitoring of Supplementation Response Variables for the YKFP	Provides lead position in development of the YKFP Monitoring Implementation Plan and implements M & E for long-term fitness and reproductive success response variables.
9506300	Yakima/Klickitat Monitoring & Evaluation Program	Implements portions of the supplementation as described by the Yakima Spring Chinook Monitoring Plan

Section 4. Objectives, tasks and schedules

Objectives and tasks

Obj 1,2,3	Objective	Task a,b,c	Task
1	Project Management Structure	a	Facilitate refinement and maintenance of a YKFP project management structure to maintain project facilities and operations and conduct needed monitoring and evaluation.
2	Resolution of Management Issues	a	The WDFW will identify and consult with parties having an interest in the YKFP. WDFW will identify management issues and expedite resolution among the project management parties.
3	Policy Coordination of YKFP Planning and Operations	a	The WDFW will assist in the review, amendment, and approval of the YKFP Project Status Report, Uncertainty Resolution Plan, and the Project Annual Review, and the review of experimental results
4	Technical Coordination of YKFP Planning	a	The WDFW, through the Scientific and Technical Advisory Committee (STAC), will

			participatge in reviewing and coordinating all biologic aspects of the YKFP and the activities within the basin which affect the success of YKFP objectives.

Objective schedules and costs

Objective #	Start Date mm/yyyy	End Date mm/yyyy	Cost %
1	1/1999	12/1999	10.00%
2	1/1999	12/1999	35.00%
3	1/1999	12/1999	15.00%
4	1/1999	12/1999	4000.00%
			TOTAL 4060.00%

Schedule constraints.

none

Completion date.

2005

Section 5. Budget

FY99 budget by line item

Item	Note	FY99
Personnel		\$115,000
Fringe benefits		\$28,750
Supplies, materials, non-expendable property		\$23,600
Operations & maintenance		
Capital acquisitions or improvements (e.g. land, buildings, major equip.)		
PIT tags	# of tags:	
Travel		\$13,750
Indirect costs		\$43,900
Subcontracts		\$50,000
Other		
TOTAL		\$275,000

Outyear costs

Outyear costs	FY2000	FY01	FY02	FY03
Total budget	\$275,000	\$275,000	\$275,000	\$275,000
O&M as % of total	0.00%	0.00%	0.00%	0.00%

Section 6. Abstract

The goal of this proposal is to provide for Washington Department of Fish and Wildlife (WDFW) participation in all aspects of the Yakima/Klickitat Fisheries Project (YKFP) management in terms of policy and the impact of technical matters on policy. Participation in management of the YKFP is consistent with direction of the Northwest Power Planning Council (letter Brusett to Jura, 1987, Attachment 2, task 8). The WDFW will, in accord with the Yakama Indian Nation (YIN) and Bonneville Power Administration (BPA) contribute to development and implementation of prefacility design measures; foster policy development and coordination with tribal, state and federal fisheries agencies having a vested interest in the Yakima/Klickitat Fisheries Project; coordinate efforts specifically addressing fishery management policies; and assist in development, oversight and review of technical issues involved in experimental design, monitoring, evaluation, facility design, operations, and project implementation.

Section 7. Project description

a. Technical and/or scientific background.

The Yakima/Klickitat Fisheries Project is a supplementation project sponsored by the Northwest Power Planning Council (Columbia River Basin Fish and Wildlife Program 1994, Measure 7.4K). The objective of the YKFP is to test the hypothesis that new supplementation techniques can be used in the Yakima River Basin to increase natural production and to improve harvest opportunities while maintaining the long-term genetic fitness of the wild and native salmonid populations and keeping adverse ecological interactions within acceptable limits (Yakima Fisheries Project Final Environmental Impact Statement, 1996). The YKFP endorses an adaptive management policy applied through a project management framework as described in the Yakima/Klickitat Fisheries Project Planning Status Report (1995). The project is managed by a Policy Group consisting of a representative of the Yakama Indian Nation (the lead agency) and a representative of the Washington Department of Fish and Wildlife. The functions of the parties are described in an MOU between the YIN and the WDFW. A Scientific and Technical Advisory Committee (STAC) consisting of one representative from each management entity reports to the Policy Group and provides technical input on policy and other issues. The Policy Group and STAC meet periodically (usually at two- to three-week intervals) to conduct the business of the YKFP. This proposal supports effective participation in various YKFP activities including: implementation of a project

management structure, identification and resolution of management issues, coordination with Bonneville Power Administration regarding project contracted activities and deliverables, involvement in the STAC supporting policy development and resolution, participation in support of NEPA activities, and facility design and operations review and support.

b. Proposal objectives.

Objective 1: Project Management Structure

Facilitate refinement and maintenance of a YKFP project management structure to maintain project facilities and operations and conduct needed monitoring and evaluation

Objective 2: Resolution of Management Issues.

The WDFW will identify and consult with parties having an interest in the YKFP. WDFW will identify management issues and expedite resolution among the project management parties.

Objective 3: Policy Coordination of YKFP Planning and Operations.

The WDFW will assist in the review, amendment, and approval of the YKFP Project Status Report (PSR), Uncertainty Resolution Plan (URP), and the Project Annual Review (PAR), and review of experimental results. WDFW will assist in review of annual facility operating plans. WDFW will assist to ensure that sound analytical methods are employed with related policy presence. The YKFP Policy Group will be the central forum for policy analysis and direction.

Objective 4: Technical Coordination of YKFP Planning.

The WDFW, through the Scientific and Technical Advisory Committee (STAC), will participate in reviewing and coordinating all biologic aspects of the YKFP and activities within the basin which affect the success of YKFP research, monitoring, and evaluation objectives. STAC will participate in technical consultation, coordination, review, amendment, and approval of the YKFP Project Status Report (PSR), Uncertainty Resolution Plan (URP), Project Annual Review (PAR), experimental designs and results. In addition, STAC will be responsible for preparing the YKFP Project Management Plan, (PMP) consistent with preparation of its component documents (i.e. PAR, PSR, URP). WDFW will assist to ensure that sound scientific methods are employed in support of related policy analysis.

c. Rationale and significance to Regional Programs.

Participation by WDFW in management of the YKFP is consistent with intent of the PPC. WDFW, in its role as a regional resource management agency is in a key position to bring both technical and policy expertise to the YKFP.

The cooperating fishery managers on the YKFP are the Yakama Indian Nation and the Washington Department of Fish and Wildlife. A project management framework stipulates that project management is directed by a Policy Group consisting of representatives of the fishery managers. The USBOR is an interested party in the basin and several proposed monitoring facilities are operated by BOR. BPA is the funding entity and has the lead responsibility for NEPA document development and compliance.

d. Project history

Project Numbers: 89-082 (WDFW prior to 1995)

Project Reports and Technical Papers:

Yakima/Klickitat Fisheries Project Project Planning Status Report, Volumes 1 through 5, 1993 (spring chinook and coho revised 1995).

Summary of major results achieved: Project management guided the construction of the Upper Yakima Spring Chinook Supplementation Facility including the central hatchery at Cle Elum. Construction of the hatchery followed completion of four NEPA compliance documents leading to the final Environmental Impact Statement. Annually the managers have sponsored a Project Annual Review and have supported annual project and budget planning cycles.

Adaptive Management Implications: Under the adaptive management structure for the YKFP, project managers propose actions (strategies) in response to a set of agreed-upon objectives. These actions are designed as experiments to test whether the predicted result (or some other result) occurs. They also define operating assumptions needed to accept the strategies, associated uncertainties, and the risk of not meeting the stated objectives if the assumptions are incorrect or the strategy is not feasible. The experiments must be carefully designed to obtain valid (i.e., statistically reliable) results in a specified period of time. The experiments are conducted and carefully monitored to allow statistical evaluation of the results. The process includes a mechanism for review of the previous year's results, which may cause the objectives to be modified, in turn restarting the process.

Years underway: 1995 to present with current project number. Prior to the merger of the Washington Department's of Wildlife and Fisheries, each agency had a technical and policy representative participating in project management.

Past Costs: \$589,243 (FY'96 + FY'97)

e. Methods.

A detailed description of management tasks by objective is provided. Although this project directs the course of monitoring and evaluation for the YKFP, no research is conducted within this project number.

Objective 1:

- Implement the State/Tribal MOU for project management.
- revise and maintain a process to manage YKFP planning processes (e.g. Planning Status Report, Uncertainty Resolution Plan, and Project Annual review.
- Develop a staffing structure to manage annual planning, artificial propagation, monitoring, and data management activities.
- The WDFW will participate in the Policy Group with one lead Policy Representative and in the Scientific and Technical Advisory Committee with one lead technical representative.

Objective 2:

- Establish contacts and consult with stakeholders (public outreach).
- Maintain close liaison with state, federal, and tribal policy representatives.
- Participate in technical team meetings on an ongoing basis.
- Identify activities occurring within or outside the Yakima and Klickitat basins that have potential to affect the YKFP and facilitate coordinated planning to enhance success of the project.
- Identify and assist with resolution of environmental issues associated with NEPA compliance procedures.

Objective 3:

- Review and assist in establishing and refining project management and operational objectives and policy, and work to ensure consistency with and between the PSR and URP.

- Provide senior policy direction in project planning activities, including guidance to the Scientific and Technical Advisory Committee with respect to management objectives.
- Keep abreast of changes in the URP resulting from approved changes in assumption, strategies, and uncertainties in the PSR, delays in work, funding limitations, BPA policy, and other activities forcing changes in the critical path and resulting in impacts to the assessment of YKFP risks.
- As part of the PAR, assess the fishery management and policy implications of new assumptions and critical uncertainties on objectives and related strategies in the PSR, and assure that any decisions are captured in the PSR for the following years.

Objective 4:

- Review and assist in establishing and refining project goals and strategies and work to ensure consistency with and between the PSR and the URP.
- Through STAC, participate in annual and 5-yr work plans.
- Assist in definition, review, and refinement of scopes of work related to appropriate discretionary tasks in the URP.
- Keep abreast of changes in the URP as a result of changes in assumptions, strategies, and uncertainties in the PSR, work delays, funding limitations, BPA policy, and other activities forcing changes in the critical path, and resulting in impacts to the assessment of YKFP risks.
- Provide technical input to project planning activities (e.g. PSR, URP, PAR) and oversight of other WDFW contracted activities.
- Provide a senior technical representative for the Scientific and Technical Advisory Committee.
- Through STAC, assist in the oversight of standing or interim work groups as deemed appropriate.
- Assist in the development and refinement of fish culture practices, strategies, and engineering design, consistent with experimental design needs and operational consideration.
- Provide oversight for a “Project Development Coordinator” to serve as the lead YKFP fish culture technical advisor for hatchery biological specifications, facility design, project operational specifications, and engineering review.

f. Facilities and equipment.

No special equipment or facilities are necessary for project management functions. Specialty items necessary for projects conducted under direction of the YKFP policy group will be itemized in separate task orders.

g. References.

1994 Columbia River Basin Fish and Wildlife Program, Northwest Power Planning Council, Portland, OR. 1994.

Yakima Fisheries Project Final Environment Impact Statement. Bonneville Power Administration, 1996.

Yakima/Klickitat Fisheries Project Planning Status Report, Volume 3, Spring Chinook Salmon, May 1995. Prepared for Bonneville Power Administration.

Letter Brusett (NPPC) to Jura (BPA), November 1987, Attachment 2, Task 8.

Section 8. Relationships to other projects

This project is one among a suite of integrated projects that, collectively, constitute the Yakima/Klickitat Fisheries Project. This project along with 8812001 provide policy and technical planning and coordination for the Washington Department of Fish and Wildlife and the Yakama Indian Nation, respectively. The Policy Group receives technical input from the Scientific and Technical Advisory Committee (STAC), also supported under the above contracts. Project 9506402, 9506405, 9701300, 9506300, 8812008, and 8812005 each represent a critical component of the Yakima/Klickitat Fisheries Project, addressing critical uncertainties as reflected in the Project Status Report, Vol. 3, Yakima Spring Chinook Salmon (1995) and the Yakima Fisheries Project Spring Chinook Supplementation Monitoring Plan (1997).

Section 9. Key personnel

Keith Wolf	Regional Program Manager	6 mos	Policy representative
Bill Hopley	Fisheries Research Scientist II	12 mos	Technical Rep.

BILL HOPLEY

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BACKGROUND

- 1997-present: Fisheries Research Scientist II, Washington Department of Fish and Wildlife
- 1991-1997: Fisheries Research Scientist I, Washington Department of Fish and Wildlife (until 1994 Washington Department of Fisheries)
- 1979-1991: Resource Manager I, Washington Department of Fish and Wildlife
- 1975-1979: Fish Biologist 3, Washington Department of Fish and Wildlife

SELECTED PUBLICATIONS

Pearsons, T. N., G. A. McMichael, E. L. Bartrand, A. L. Fritts, K. D. Ham, and C. W. Hopley. Yakima River Species Interactions Studies. Annual Report FY 1995-1996 submitted to Bonneville Power Administration, Portland, Oregon. 96AT65513. In Preparation.

Section 10. Information/technology transfer

Results from project management work are communicated primarily through the Project Annual Review. Results of work conducted through other contracts under the auspices of the Policy Group will be communicated in three ways; digitally, orally, and in writing. Information will be sent to the YKFP archive repository. Oral presentations will be made to resource groups and schools upon request, YKFP, BPA, and WDFW management meetings, and at scientific meetings. Annual reports will be submitted to BPA as required and manuscripts will be submitted to scientific journals for publication as appropriate.