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## PART I - ADMINISTRATIVE

### Section 1. General administrative information

#### Title of project

Smolt Monitoring Program Marking

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**BPA project number:** 8401400

**Contract renewal date (mm/yyyy):** 1/2000  **Multiple actions?**

#### **Business name of agency, institution or organization requesting funding**

US Fish and Wildlife Service

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**Business acronym (if appropriate)** USFWS

#### **Proposal contact person or principal investigator:**

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#### **NPPC Program Measure Number(s) which this project addresses**

3.6F.10 Sections 303, 403b, 1408.2.8, 5.9A.1

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

RPA Section 13, A, C, RPA Section 17

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#### **Other planning document references**

NMFS Biological RPA 13 (a) 2 RPA 17

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#### **Short description**

PIT Tagging Chinook and Steelhead for Smolt Monitoring Program Groups

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#### **Target species**

Chinook, Steelhead, Fall Chinook

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### Section 2. Sorting and evaluation

#### **Subbasin**

Mainstem Snake and Columbia

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**Evaluation Process Sort**

<b>CBFWA caucus</b>	<b>Special evaluation process</b>	<b>ISRP project type</b>
Mark one or more caucus	If your project fits either of these processes, mark one or both	Mark one or more categories
<input checked="" type="checkbox"/> Anadromous fish <input type="checkbox"/> Resident fish <input type="checkbox"/> Wildlife	<input type="checkbox"/> Multi-year (milestone-based evaluation) <input type="checkbox"/> Watershed project evaluation	<input type="checkbox"/> Watershed councils/model watersheds <input type="checkbox"/> Information dissemination <input type="checkbox"/> Operation & maintenance <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Research & monitoring <input checked="" type="checkbox"/> Implementation & management <input type="checkbox"/> Wildlife habitat acquisitions

**Section 3. Relationships to other Bonneville projects**

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

<b>Project #</b>	<b>Project title/description</b>
20552	Smolt Monitoring Program

***Other dependent or critically-related projects***

<b>Project #</b>	<b>Project title/description</b>	<b>Nature of relationship</b>
9008000	Columbia Basin TPI Tag Information System	Critical
9403300	Fish Passage Center (FPC)	Critical

**Section 4. Objectives, tasks and schedules**

***Past accomplishments***

<b>Year</b>	<b>Accomplishment</b>	<b>Met biological objectives?</b>
1999	Complete marking SMP groups	yes
1998	Complete marking SMP groups	yes
1997	Complete marking SMP groups	yes
1996	Complete marking SMP groups	yes

**Objectives and tasks**

<b>Obj 1,2,3</b>	<b>Objective</b>	<b>Task a,b,c</b>	<b>Task</b>
1	Mark SMP Groups	a	apply PIT tags according to SMP protocol and study plan
2	Upload data files in PTAGIS database		

**Objective schedules and costs**

<b>Obj #</b>	<b>Start date mm/yyyy</b>	<b>End date mm/yyyy</b>	<b>Measureable biological objective(s)</b>	<b>Milestone</b>	<b>FY2000 Cost %</b>
1	1/2000	12/2000	Complete mark group tagging.		75.00%
2	1/2000	12/2000	Upload data files in PTAGIS database		25.00%
				<b>Total</b>	100.00%

**Schedule constraints**

None Known

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**Completion date**

12/2000

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**Section 5. Budget**

**FY99 project budget (BPA obligated):** \$117,580

**FY2000 budget by line item**

<b>Item</b>	<b>Note</b>	<b>% of total</b>	<b>FY2000</b>
Personnel		%15	17,821
Fringe benefits		%5	6,237
Supplies, materials, non-expendable property		%3	3,190
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: 25,500	%61	73,950
Travel		%6	7,840
Indirect costs		%10	12,000
Subcontractor		%0	
Other		%0	
<b>TOTAL BPA FY2000 BUDGET REQUEST</b>			<b>\$121,038</b>

**Cost sharing**

Organization	Item or service provided	% total project cost (incl. BPA)	Amount (\$)
		%0	
		%0	
		%0	
		%0	
<b>Total project cost (including BPA portion)</b>			<b>\$121,038</b>

**Outyear costs**

	FY2001	FY02	FY03	FY04
<b>Total budget</b>	\$124,669	\$128,409	\$132,261	\$136,229

**Section 6. References**

Watershed?	Reference
<input type="checkbox"/>	

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**PART II - NARRATIVE**

**Section 7. Abstract**

This work is a component of the Smolt Monitoring Program Umbrella Project. The Annual SMP is developed and reviewed annually by the state, federal and tribal fishery managers. The purpose and scope of this project is to conduct PIT tag marking on specific groups of hatchery fish as determined by the annual program. The standard protocols and techniques developed by the PIT tag Steering Committee are utilized.

Tagging data is loaded to the PITAGIS data system utilizing protocols established by PITAGIS.

## **Section 8. Project description**

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

This work is a component of the **SMP Umbrella proposal**. Refer to the SMP Umbrella proposal for specific regarding SMP. Refer to the PITAGIS proposal for specifics regarding the PIT tagging data protocol.

### **b. Rationale and significance to Regional Programs**

Refer to the **SMP Umbrella Proposal** for discussion of regional significance. This project is a critical component of the SMP.

### **c. Relationships to other projects**

Refer to the discussion in the **SMP Umbrella proposal**. This project is a critical component of the implementation of the SMP for the Snake and Columbia rivers.

### **d. Project history (for ongoing projects)**

This project was formally included in project # 8906500 Missing Hatchery Production Groups. In 1999 the marking for various projects that was included in this project were separated into individual contracts. USFWS has been marking fish for the SMP since the inception of the SMP. Specific mark groups and mark group sizes have been determined by the SMP annual workplan. Please see the SMP Umbrella proposal for a more extensive discussion of the history of the SMP.

### **e. Proposal objectives**

Refer to the SMP Umbrella Proposal for the objectives of the overall SMP. The objective of this component of the SMP is to successfully complete the marking required by the annual SMP plan according to the schedule established in the SMP annual workplan

### **f. Methods**

Refer to the SMP Umbrella proposal for an extensive discussion of the SMP methods. This project utilizes PIT tag marking methods as developed by the PITAGIS steering committee and utilizes data procedures established by PITAGIS.

### **g. Facilities and equipment**

Since marking occurs at hatchery facilities, some hatchery facilities are required, these vary with the facility. Otherwise a USFWS maintained tagging trailer is required. Syringes needles, and PIT tags are required and are obtained annually. See the discussion in the **SMP Umbrella proposal**.

**h. Budget**

The budget for this project is primarily comprised of the cost of PIT tags and personnel to complete the tagging. Cost of PIT tags is included and comprises 63% of the budget for this project at \$2.90 per tag.

**Section 9. Key personnel**

Dave Wills  
USFWS

**Section 10. Information/technology transfer**

Tagging data is uploaded to the PITAGIS data system. This data is available through the PITAGIS system. It is available and analyzed by all interested parties. Final analyses of these mark groups is included in the Fish Passage Center Annual Report of the Smolt Monitoring Program.

**Congratulations!**