Bonneville Power Administration
FY 2003 Provincial Project Review

Mainstem & System-wide Province

First, read the help documents

Please carefully read the **Proposal Development and Selection Criteria** document, which contains information on the review process, and the **instructions** document, which provides field- and content-related help for the form. If you are missing either document, please visit http://www.cbfwa.org/reviewforms/systemwide/default.htm or call 503-229-0191.

Important notes

- This form is to submit projects or proposals for BPA FY 2003-5 funding for Mainstem & System-wide Province only.
- This document is only available for Word97/Word2000/WordXP. Do not save down to older formats, or use in another word processor such as WordPerfect, even if it supports Word conversions. You will lose the auto-calculations, and won't be able to add or delete table rows. You may also risk not being able to re-open the document.
- Some help text is included as "hidden" comments on the data form, which is displayed by resting the mouse cursor over any yellow text (usually section headings or field names)
- Use these keystroke macros to assist you in the form. If the macros aren't available (nothing happens when you press these keys), then you need to enable macros in Word: In Word97, close the proposal, then open again and choose Enable macros if prompted. In Word2000/XP, close the proposal, choose Tools, Macro, Security, and set the security level to medium. Re-open the proposal and choose Enable macros when prompted.

To	Press
insert rows in tables	Alt-R and you'll be asked whether to insert a row at the current position or add one to the end of the table
delete rows in tables	Alt-D at the row you want to delete
calculate budget totals	Alt-C either periodically, or when you're done with the form
Spellcheck	Alt-S

Steps to complete the form

1) First, read the help documents (get them at http://www.cbfwa.org/reviewforms/systemwide/default.htm)
2) There are two documents to this form:
   a) Part 1 (**blank_sys.doc)** consists of administrative and budgeting information. Your input is restricted to the grey fields.
   b) Part 2 (**narrative.doc)** allows you to describe your project at length, including maps, tables, graphics, etc.
3) Save this as something other than blank_sys.doc. Preferably, use the BPA 9-digit project number, like "198906200.doc" or if your project has no project number, the first few words of the title, like "RestoreFish.doc", and a proposal number will be assigned to you by BPA upon receipt of your proposal.
4) Your cursor is already in the first input field, Title of Project, so start typing

5) Fill in all fields (gray boxes) pressing Tab to advance from one field to the next
6) Press Alt-C when complete to calculate totals
7) Save document, then open **narrative.doc** to begin Part 2.
8) Please print the completed documents. Part 1 prints in landscape (sideways) orientation, Part 2 in portrait (regular).

Save the documents and then **email** your forms and any attachments to fwproposals@bpa.gov. **NOTE: BPA cannot receive e-mails larger than 5 MB.** Or mail paper and diskette(s) to:

Bonneville Power Administration
Attention: Cate Hanan - KEWB-4
FY 2003 Proposals – Mainstem & System-wide Province Review
905 NE 11th Avenue
Portland, OR 97232

9) Monitor the http://www.efw.bpa.gov/cgi-bin/FW/02MainstemSystemwide.cgi.website to verify your project funding request is received and posted correctly.

All projects must be received no later than 5:00pm PST on Monday, June 3, 2002.
No late proposals will be reviewed for FY 2003 funding.

PART 1 of 2. Administration and Budgeting

Section 1 of 10. General administrative information

Title of project
Estimate juvenile salmon residence in the Columbia River Plume using micro-acoustic transmitters.

BPA project number 35046

Business name of agency, institution or organization requesting funding
National Marine Fisheries Service

Business acronym (if appropriate) NMFS

Proposal contact person or principal investigator:

Name	John Ferguson
Mailing Address	2725 Montlake Blvd. East
City, ST Zip	Seattle WA, 98112
Phone	206 860-3276
Fax	206 860-3267
Email address	john.w.ferguson@noaa.gov

Manager of program authorizing this project Michael H. Schiewe

Location of the project

Latitude	Longitude	Description
48.5N	124W	current extent of Columbia River plume influence
44.75N	125.5W	

Target species
Chinook salmon

Short description
Estimate juvenile chinook salmon residence time and areas of utilization within the Columbia River plume.

RPAs. View guidance on proposal development and selection criteria named mainstem_systemwidecriteria.pdf, available as a link from the main proposal solicitation page. Indicate what, if any, ESA Biological Opinion action(s) will be met by the proposed project. Explain how and to what extent the project meets the ESA requirement.

NMFS and/or FWS Reasonable and Prudent Alternatives (RPA)

RPA Number	Description
194	develop a physical model of the lower Columbia River and plume that can be used to characterize potential changes to estuarine habitat associated with modified hydrosystem flows
195	investigate and partition the causes of mortality below Bonneville Dam after juvenile passage through FCRPS
197	develop an understanding of juvenile and adult salmonid use of the Columbia River plume

Information transfer

The expected outcomes of this project are (check one)
☐ quantitative ☒ qualitative ☐ indirect

Data generated by this project are (check one)
☒ primary ☐ derived ☐ indirect

Are there restrictions on the use of the data? (check one)
☒ none ☐ non-commercial use only
☐ educational use only ☐ requires prior approval
☐ sensitive ☐ proprietary, no public distribution

Where do the data reside (check one or more)?
Private/managed locally: ☐ printed ☐ electronic
Public access:
Printed at ☒ BPA ☒ Peer-reviewed journal or other
Internet at ☒ BPA ☐ StreamNet ☐ Fish Passage Center ☐ DART or other web address

In what other ways will information from this project be transferred or used?
Scientific conferences, Workshops, Informal meetings with regional managers

Section 2 of 10. Past accomplishments

Year	Accomplishment
2003	New project

Year	Accomplishment

Section 3 of 10. Relationships to other projects

Project #	Project title/description	Nature of relationship
199801400	Survival and growth of juvenile salmonids in the Columbia River plume	This proposal will provide a better understanding of residence areas within the plume, and how use shifts in relation to FCRPS processes.

Section 4 of 10. Estimated budget for Planning & Design phase

Task-based estimated budget

Objective (1. text, 2. text...)	Task (a. text, b. text...)	Task duration in FYs	Estimated FY 03 cost	Subcontractor
1. Select acoustic array subcontractor	a. develop scoping statement, statement of work, award contract	1	17,300	☐
2. Design hydroacoustic detection system	a. design a mobile array	1	77,300	☒
2.	b. design a stationary array to complement Kintama system	3	206,000	☒
3. Develop annual plan	a. determine required marking/detection strategies	ongoing	24,200	☐
3.	b. obtain state and federal permits	ongoing	7,600	☐
4. Contract research vessels	a. develop vessel SOW; award contract	ongoing	2,800	☐
				☐
		Total	$335,200	

Out year objective-based estimated 2004 - 2007 budget

Objective (1. text, 2. text...)	Starting FY	Ending FY	Estimated cost
1. Select hydroacoustic design contractor			
2. Design hydroacoustic detection system	2004	2005	309,000
3. Develop annual plan	2004	2007	32,800
4. Contract research vessels	2004	2007	12,800

Out year estimated budgets

	FY 2004	FY 2005	FY 2006	FY 2007
Total budget	$189,100	$189,100	$39,600	$39,600

Section 5 of 10. Estimated budget for Construction/Implementation phase

Task-based estimated budget

Objective (1. text, 2. text...)	Task (a. text, b. text...)	Task duration in FYs	Estimated FY 03 cost	Subcon-tractor
1. Fabricate mobile array	a. collect physical data	1	25,000	☒
1.	b. develop model using physical dats	2	100,000	☒
1.	c. build mobile array	2		☒
1.	d. quality test mobile array	1		☐
2. Fabricate / deploy stationary array	a. collect physical data	1		☒
2.	b. develop model using physical data	1		☒
2.	c. build stationary arrays	2		☒
2.	d. deploy stationary arrays	2		☒
2.	e. quality test stationary array	ongoing		☐
3. Determine factors affecting juvenile salmonid residence in Columbia River plume	a. tag target groups	ongoing	182,700	☐
3.	b. monitor plume with mobile array	ongoing		☐
3.	c. monitor stationary arrays	ongoing		☐

Objective (1. text, 2. text...)	Task (a. text, b. text...)	Task duration in FYs	Estimated FY 03 cost	Subcon-tractor
3.	d. analyze data	ongoing	135,900	☐
3.	e. prepare reports and recommendations	ongoing	72,500	☐
				☐
		Total	$516,100	

Out year objective-based estimated 2004 - 2007 budget

Objective (1. text, 2. text...)	Starting FY	Ending FY	Estimated cost
1. Fabricate mobile array	2004	2005	359,900
2. Fabricate / deploy stationary array	2004	2007	1,832,200
3. Determine factors affecting juvenile salmonid residence in Columbia River plume	2004	2007	6,248,900

Out year estimated budgets for construction/implementation phase

	FY 2004	FY 2005	FY 2006	FY 2007
Total budget	$1,144,900	$3,229,500	$2,033,200	$2,033,200

Section 6 of 10. Estimated budget for Operation & Maintenance phase

Task-based estimated budget

Objective (1. text, 2. text...)	Task (a. text, b. text...)	Task duration in FYs	Estimated FY 03 cost	Subcon-tractor
1. Maintain hyrdoacoustic arrays	a. repair and replace hydroacoustic equipment	ongoing		☒
2. Maintain vessels and equipment	a. repair and replace vessels / lifting gear/etc.	ongoing	27,000	☐
				☐
				☐
		Total	$27,000	

Out year objective-based estimated 2004 - 2007 budget

Objective (1. text, 2. text...)	Starting FY	Ending FY	Estimated cost
1. Maintain hydroacoustic arrays	2004	2007	566,500
2. Maintain vessels and equipment	2004	2007	282,700

Out year estimated budgets for operations & maintenance phase

	FY 2004	FY 2005	FY 2006	FY 2007
Total budget	$109,300	$168,400	$285,700	$285,700

Section 7 of 10. Estimated budget for Monitoring & Evaluation phase

Task-based estimated budget

Objective (1. text, 2. text...)	Task (a. text, b. text...)	Task duration in FYs	Estimated FY 03 cost	Subcon-tractor
				☐
				☐
				☐
		Total	$ 0	

Out year objective-based estimated 2004 - 2007 budget

Objective (1. text, 2. text...)	Starting FY	Ending FY	Estimated cost

Out year estimated budgets for monitoring & evaluation phase

	FY 2004	FY 2005	FY 2006	FY 2007
Total budget				

Section 8 of 10. Estimated budget summary

Itemized estimated budget

Item	Note	FY 2003
Personnel	FTE: 1.38	107,000
Fringe benefits		25,400
Supplies, materials, non-expendable property		152,500
Travel		16,700
Indirect costs		76,700
Capital acquisitions or improvements (e.g. land, buildings, major equip. over $10,000)		
NEPA costs		
PIT tags @$2.25/ea	# of tags:	
Subcontractor	SAIC	500,000
Subcontractor	OGI	
Subcontractor	Vessel Charter	
Subcontractor	PSMFC	
Other		
	Total BPA funding request	$878,300

Total estimated budget

Total FY 2003 project cost	$878,300
Amount anticipated from previously committed BPA funds (carryover)	-
Total FY 2003 budget request	$878,300
FY 2003 forecast from FY 2001	
% change from forecast	0.0% increase

Reason for change in estimated budget

Reason for change in scope

Cost sharing

Organization	Item or service provided	Amount ($)	Cash or in-kind?
			cash
			cash
			cash
			cash
	Total cost-share	$ 0	

Out year budget totals

	FY 2004	FY 2005	FY 2006	FY 2007
Planning & design phase	189,100	189,100	39,600	39,600
Construction/impl. phase	1,144,900	3,229,500	2,033,200	2,033,200
O & M phase	109,300	168,400	285,700	285,700
M & E phase	0	0	0	0
Total budget	$1,443,300	$3,587,000	$2,358,500	$2,358,500

Other budget explanation

Part 1 of 2 complete!

Press Alt-C to calculate totals on the document. If any totals don't match, you'll see a message.
Then save this document, and open "narrative.doc" to begin Part 2, which includes Sections 9-10.