

Tom Karier
Chair
Washington

Frank L. Cassidy Jr.
"Larry"
Washington

Jim Kempton
Idaho

W. Bill Booth
Idaho



Joan M. Dukes
Vice-Chair
Oregon

Melinda S. Eden
Oregon

Bruce A. Measure
Montana

Rhonda Whiting
Montana

April 5, 2007

MEMORANDUM

TO: Council Members

FROM: Patty O'Toole, Program Implementation Manager

SUBJECT: Discussion of Bonneville FY 2007-2009 fish *and* wildlife funding decision, and Council decision on response to Bonneville FY 2007-2009 fish and wildlife funding decision

At the April meeting, the staff proposes that the Council consider and decide on a letter in response to the Bonneville FY 07-09 Fish and Wildlife project funding decision. In addition, the staff will present additional information from Bonneville on the decision and on next steps, as the Council called for last meeting.

The staff will also present information designed to scope the nature, extent and timing of an FY08 start of year budget confirmation process and provide the Fish and Wildlife Committee with a comprehensive review of the "in lieu" issue;

FY 2007-2009 Bonneville Fish and Wildlife project funding decision

The primary purpose of the agenda item is to decide whether and how to respond to the Bonneville funding decision. Staff circulated a draft set of issues and responses and is receiving comments. The staff will develop a draft letter based on the comments and circulate early next week, for Committee review and recommendation and Council decision.

Staff letter and response

To help the staff and Council better understand the Bonneville funding decision, and based on Council comments from Boise meeting, the staff sent a letter to Bonneville asking for further clarification of their decision and additional information. A copy of letter attached.

As of packet day, we have received from Bonneville staff a set of information related to the third request in the letter, a more clear explanation of the reasons for the changes made by Bonneville from the Council's recommendation. The information comprises of a set of categories of Bonneville budget changes. This material was circulated earlier and is useful

information in that gives us a better understanding of why project budgets changed. However, the information did not combine projects that were not funded for a particular policy reason, with projects that where the budget was reduced for the same policy reason. Our main goal has been to be able to understand better the magnitude of the changes related to the large policy initiatives (FCRPS responsibility, in lieu, reinvention,) as compared to the magnitude of changes for other reasons. Council staff has refined this information to describe the magnitude of the policy initiatives overall, and that assessment is attached to this memo. Council staff will continue to work with Bonneville to fine tune this information before the April meeting. The Council staff requested other information in the staff letter: the capital project funding decision, commitments on ISRP and step review, rescheduling and carry-forward rules, and other items. As of packet day, we did not yet receive a response on these items from Bonneville and we understand it is pending. The staff will circulate that response when it is received.

FY 2008 Start of Year Budget Process

There are several things to consider regarding Bonneville's decision and a FY08 start-of-year budget process. The staff intend to review this topic with the Committee and Council at the April meeting. The staff letter asked Bonneville for their ideas and to work together to design an efficient FY08 start of year budget review. Once we have the response from Bonneville we will also provide a recommendation for the Committee to consider as to how to proceed over the next few months. The Council staff recommendation will likely be that the focus of the effort should be to review and confirm FY 2008 and 2009 budgets for projects that received an interim Council recommendation, confirm those project budgets that Bonneville has adjusted since the decision letter and tables, and to make recommendations to allocate remaining planning budget to projects or to reserves. To prepare for the work involved with making recommendations to allocate the remaining budget, we need Bonneville to confirm the amount of the planning money that is available in addition to that which has been allocated, and to come to a final understanding about the rules or restrictions Bonneville intends to apply to those funds. The Council staff recommend that the Council continue to rely heavily on recommendations Council already has made and draw only from the pool of projects already reviewed and not support a new solicitation and review process at this time.

Bonneville asked that the Council make any recommendation for FY 2008 and 2009 budget changes budget changes to Bonneville by July 1. The staff believes it may be possible to make the necessary budget recommendations at the July Council meeting (July 10-12).

Review of in lieu issue

Finally, the Fish and Wildlife Committee agenda includes a discussion of the in lieu issue. Attached is a memo from John Shurts that provides background on the issue, and reminds the Council of its explanation and programmatic recommendation on the in lieu issue in the Council's 07-09 decision. The staff still believe that is a sound approach and the attached memo concludes with some comments and recommendations to that end. We expect a representative from Bonneville will be available at the meeting to discuss both the elements of Bonneville's in lieu policy and the way it has been applied to the projects.

Attachments:

Copy of Council staff letter to Bonneville

Categories of budget adjustments for Bonneville funding decision, staff draft 04/05/07

Staff memo regarding “in lieu”

Copy of Bonneville August 3, 2006 in lieu policy, table and “in lieu interpretive key and rating system”

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March 19, 2007

Mr. Greg Delwiche
Vice President, Environment, Fish and Wildlife
Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208

RE: Information regarding Bonneville's FY2007-09 project funding decision

Dear Mr. Delwiche:

The Council staff is carefully considering the many aspects of Bonneville's decision in response to the Council project funding recommendations for FY2007-09. As you know from the Council's discussion at its March meeting in Boise, we need additional information from Bonneville to help us fully understand Bonneville's decision. The staff is concerned that it lacks information to determine how Bonneville's policy initiatives were applied to project funding.

First, the staff requests that Bonneville forward a capital budget table as part of the decision package. When the capital table is available, the staff will work with Bonneville to develop a capital plan that defines the level of certainty associated with capital projects during the rate period.

Second, the staff understands that Bonneville has already adjusted its expense project decisions in response to reactions from individual states. As the Council requested at the March meeting, please provide an up-to-date set of expense tables and planning budget totals, with an explanation for what is different from the February decision.

Third, the staff summarized the changes that Bonneville made to the Council's project recommendations, in terms of the number of projects with different budgets and the number of projects added or removed. At its March meeting, the Council requested a clearer understanding as to why Bonneville made each project-specific change. As the Council requested, please provide a clear explanation for each change from the Council's recommendations. Specifically, please explain whether a change in a project or a budget is (1) related to one or more of the initiatives expressed in Bonneville's decision letter (and identify which one); or (2) represents a change in the work elements of a project for a reason unrelated to one of the broader policy initiatives; or (3) is a change in the budget for a project without a change in the work

recommended. The staff has performed a preliminary sort of the changes into these categories, but needs additional explicit explanations for the budget changes.

Fourth, attached to this letter is a list of projects that Bonneville added that did not receive ISRP review, that were rated Not Fundable by the ISRP, or that the ISRP put into the Response Requested category after the preliminary review and the Council did not seek a response and final review. The staff intends to recommend that the Council ask the ISRP to review projects added by Bonneville that did not complete ISRP review, and to ask that funding by Bonneville to be conditioned upon completing ISRP review and Council recommendation in the same way the Council treated similarly situated projects in its recommendations. The list also includes projects added by Bonneville that received a "Fundable in Part" or a "Fundable Qualified" rating from the ISRP. Staff will recommend that the Council communicate to Bonneville that implementation of these projects should be limited and conditioned in the same way the Council treated similarly rated projects. Finally, the staff will recommend that the Council communicate to Bonneville that the Step process for reviewing major construction processes be continued. The Bonneville decision does not specifically speak to this. We request that Bonneville confirm its intentions to continue to support the ISRP and Step review processes for projects that the Council staff has identified as needing these reviews. Projects added to the FY07 budget that represent true transition to close-outs will not need review.

Fifth, the staff would like clarification that Bonneville will continue to use the budget management tool of "rescheduling" and "prescheduling" to allow for some implementation flexibility between fiscal years. We would also like clarification that, as in the last rate case, funding not spent in the current rate case will be carried forward into the next rate case for implementation of the Fish and Wildlife Program. As the Council discussed, the staff requests Bonneville to confirm its intentions on these issues.

Sixth, the Council recommended *interim* funding for projects in certain areas of the program, including monitoring and evaluation, data management, coordination, and operation and maintenance funding, while we review and improve the plans and priorities for the purpose of making better recommendations in these project areas. From communication with Bonneville, the staff understands that there is sufficient budget flexibility to manage these needs during the next three years. However, we would like this understanding to be confirmed as well.

Seventh, we request that Bonneville work with the staff to design and schedule a reasonable way to confirm project work and budgets for FY 2008 and eventually for FY 2009. Bonneville set a target date of June 1 for revising FY 2008 project budgets. That may be possible, and Council staff will work to hit that target. However, the amount of work involved and the remaining uncertainties increase the difficulty in hitting that target. This includes the uncertainty associated with Bonneville using a higher planning budget total than the Council, which leaves approximately \$17 million to \$20 million available for additional needs during the rate period. Staff will advise the Council that for some of these project areas, such as data management, this may mean that the Council is unable to make final project funding recommendations for FY08 and FY09 until after June 1. Great uncertainty also exists because so much is left undefined well into the FY07 fiscal year. For that reason, the Council staff and Bonneville need to work together on a schedule and related actions that meet our respective time constraints.

In preparation for Council review at the April meeting, we request that the information outlined in the first three points above be provided within a week of receipt of this letter, if possible. If this is not possible, please work with Patty O'Toole to develop an acceptable schedule for transmitting the information. The staff looks forward to participating cooperatively in a timely effort to shape an analysis that assures transparency between Council staff and Bonneville staff and the public. Thank you for your assistance.

Sincerely,

A handwritten signature in black ink, appearing to read "P. Paquet", written in a cursive style.

Peter Paquet
Acting Director, Fish and Wildlife Division

cc: William Maslen, BPA
Kyna Powers, BPA
Brian Lipscomb, CBFWA

BPA '07-09 Funding Decision

Proposal #	Proposal Title	06 SOY (capital and expense)	Council Rec. FY07 (Expense)	Council Rec. FY08 (Expense)	Council Rec. FY09 (Expense)	BPA 07 Project- Year Budget (Expense)	07 budget differences	BPA 08 Project-Year Budget (Expense)	08 budget differences	BPA 09 Project- Year Budget (Expense)	09 budget differences	BPA Project-Specific Comments	Theme code	Theme comment	BPA \$ Difference Category
200303600	CBFWA Collaborative Systemwide Monitoring and Evaluation Program	\$ 968,802	\$ 984,500	\$ 984,500	\$ -	\$ 984,500	0	500,000	-484,500	0	0	See footnote references: R4 (Close 2yrs), R1 (M&E).	1		Policy - Flatline RM&E pending review
200205300	Assess Salmonids Asotin Cr Ws	\$ 213,000	\$ 212,000	\$ 212,000	\$ 212,000	\$ 199,400	-12,600	100,000	-112,000	0	-212,000	Fish population status monitoring is a low priority for BPA. Initiate 2-year closeout. [See footnote reference: R4 (Close 2yrs)]	1		Policy - Flatline RM&E pending review
199902000	Analyze Chinook Salmon Spatial and Temporal Dynamics and Persistence	\$ 100,000	\$ 88,154	\$ 92,485	\$ 97,035	\$ 48,154	-40,000	0	-92,485	0	-97,035	Fish population status monitoring is a low priority for BPA. Smart close to wrap up technique evaluation. [See footnote reference: R3 (Close)]	1		Policy - Flatline RM&E pending review
199800200	Snake River Native Salmonid Assessment	\$ 320,806	\$ 341,520	\$ 351,766	\$ 362,320	\$ 105,000	-236,520	0	-351,766	0	-362,320	Fish population status monitoring is a low priority for BPA. [See footnote reference: R3 (Close)]	1		Policy - Flatline RM&E pending review
200715600	Rock Creek Fish and Habitat Assessment for the Prioritization of Restoration and Protection.	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	-100,000	0	-100,000	0	-100,000	Discussion with Yakama Tribe ongoing regarding on-the-ground habitat improvements. Fish population status monitoring unrelated to FCRPS operational impacts is low priority for BPA.	1	FCRPS	Policy - Flatline RM&E pending review
200703200	Potential effects of the invasive New Zealand mudsnail in tributaries of Bonneville Reservoir and the Deschutes River, (Potamopyrgus antipodarum).	\$ -	\$ 23,333	\$ 23,333	\$ 23,333	\$ -	-23,333	0	-23,333	0	-23,333	Aquatic nuisance tributary evaluation not a BPA priority or primary responsibility.	1	FCRPS	Policy - Flatline RM&E pending review
200734000	A multidisciplinary collaborative approach to aquatic habitat monitoring & evaluation in the Walla Walla Subbasin	\$ -	\$ 228,533	\$ 228,533	\$ 228,534	\$ -	-228,533	0	-228,533	0	-228,534	Appears to overlap with large scale pilot action effectiveness monitoring in Wenatchee, John Day, and Salmon River basins.	2		Policy - Flatline RM&E pending review
200733300	Timing and survival of PIT tagged juvenile fall Chinook from the Hanford Reach.	\$ -	\$ 151,659	\$ 148,120	\$ 151,214	\$ -	-151,659	0	-148,120	0	-151,214	M&E already occurring in this reach. No link to management decisions.	1		Policy - Flatline RM&E pending review
200715000	Expand Salmonid Monitoring in Grays River to Meet Monitoring Needs Identified in the Lower Columbia Salmon Recovery and Subbasin Plan and maintain an at risk Chum Salmon Pop. through Supplementation.	\$ -	\$ 305,800	\$ 191,100	\$ 200,400	\$ -	-305,800	0	-191,100	0	-200,400	Other projects provide similar data.	1		Policy - Flatline RM&E pending review
200704600	Steelhead Spawning Ground Surveys, Flow, and Temperature Monitoring of Small Tributaries of the Upper Middle Mainstem Columbia River.	\$ -	\$ 58,333	\$ 58,333	\$ 58,334	\$ -	-58,333	0	-58,333	0	-58,334	Fish population status monitoring is a low priority for BPA.	1		Policy - Flatline RM&E pending review
199900301	Evaluate Spawning of Fall Chinook and Chum Salmon Just Below the Four Lowermost Mainstem Dams	\$ 779,586	\$ 779,586	\$ 779,586	\$ 779,586	\$ 779,586	0	200,000	-579,586	100,000	-679,586	Reflects reduction in scope to provide information used for operations decisions. [See footnote reference: R11 (M&E)]	1		Policy - Flatline RM&E pending review
199801600	Salmonid Productivity, Escapement, Trend, and Habitat Monitoring in the John Day River Subbasin	\$ 880,000	\$ 700,000	\$ 700,000	\$ 700,000	\$ 634,479	-65,521	600,000	-100,000	600,000	-100,000	Reflects reduced scope and increased cost share. [See footnote reference: R11 (M&E)]	1		Policy - Flatline RM&E pending review
199501100	Chief Joseph Kokanee Enhancement	\$ 442,933	\$ 512,871	\$ 512,871	\$ 512,871	\$ 387,340	-125,531	387,340	-125,531	387,340	-125,531	Initial '07 budget level based on negotiation that discontinues the strobe light portion of the project. Any increased '07 budget contingent on outcome of a workshop with the ISRP to address ISRP concerns, and review of the highest priority RM&E for the program. Obj. 1, work element 3 is dependent upon favorable step review. Budget in out years contingent upon review of Lake Roosevelt Kokanee program.	2,1		Policy - Flatline RM&E pending review
198805307	Hood R Prod O&M - Ws/ODFW	\$ 765,457	\$ 270,282	\$ 277,906	\$ 285,530	\$ 251,107	-19,175	251,107	-26,799	251,107	-34,423	See footnote reference: R11 (M&E).	1		Policy - Flatline RM&E pending review
200305400	Repro Of Steelhead In Hood Riv	\$ 277,000	\$ 290,850	\$ 290,850	\$ 290,850	\$ 277,000	-13,850	277,000	-13,850	235,450	-55,400	See footnote references: R8 (In Lieu), R11 (M&E).	1	In lieu	Policy - Flatline RM&E pending review
200305000	Eval Of Reprod Of Steelhead	\$ 254,184	\$ 320,447	\$ 259,894	\$ 259,978	\$ 254,184	-66,263	254,184	-5,710	216,056	-43,922	See footnote references: R8 (In Lieu), R11 (M&E).	1	In lieu	Policy - Flatline RM&E pending review
199008000	Columbia Basin Pit-Tag Information System.	\$ 2,431,442	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,431,442	-68,558	2,431,000	-69,000	2,066,350	-433,650	See footnote reference: R8 (In Lieu), R11 (M&E).	1	In lieu	Policy - Flatline RM&E pending review
198910700	Statistical Support For Salmonid Survival Studies	\$ 239,265	\$ 251,228	\$ 251,228	\$ 251,228	\$ 239,265	-11,963	251,228	0	213,544	-37,684	See footnote references: R8 (In Lieu), R11 (M&E)	1	In lieu	Policy - Flatline RM&E pending review
198201304	Coded Wire Tag - WDFW	\$ 319,137	\$ 335,094	\$ 335,094	\$ 335,094	\$ 319,137	-15,957	319,137	-15,957	271,266	-63,828	See footnote references: R8 (In Lieu), R11 (M&E)	1	In lieu	Policy - Flatline RM&E pending review
198201302	Annual Stock Assessment - Coded Wire Tag Program (ODFW)	\$ 217,881	\$ 228,775	\$ 228,775	\$ 228,775	\$ 217,881	-10,894	217,881	-10,894	185,199	-43,576	See footnote references: R8 (In Lieu), R11 (M&E).	1	In lieu	Policy - Flatline RM&E pending review

BPA '07-09 Funding Decision

Proposal #	Proposal Title	06 SOY (capital and expense)	Council Rec. FY07 (Expense)	Council Rec. FY08 (Expense)	Council Rec. FY09 (Expense)	BPA 07 Project- YearBudge t (Expense)	07 budget differences	BPA 08 Project-Year Budget (Expense)	08 budget differences	BPA 09 Project- Year Budget (Expense)	09 budget differences	BPA Project-Specific Comments	Theme code	Theme commen t	BPA \$ Difference Category
198201301	Coded-Wire Tag Recovery	\$ 2,028,757	\$ 2,130,195	\$ 2,130,195	\$ 2,130,195	\$ 2,028,757	-101,438	2,028,757	-101,438	1,724,443	-405,752	See footnote references: R8 (In Lieu), R11(M&E).	1	In lieu	Policy - Flatline RM&E pending review
199700400	Resident Fish Stock Status Above Chief Joseph and Grand Coulee Dams.	\$ 540,000	\$ 622,049	\$ 682,120	\$ 663,233	\$ 622,049	0	622,049	-60,071	622,049	-41,184	See footnote reference: R11 (M&E).	1		Policy - Flatline RM&E pending review
199602100	Gas Bubble Disease Research & Monitoring of Juvenile Salmonids	\$ 16,885	\$ 20,954	\$ 22,143	\$ 23,718	\$ 16,885	-4,069	16,885	-5,258	16,885	-6,833	See footnote reference: R11 (M&E).	1		Policy - Flatline RM&E pending review
199506325	Yakima Klickitat Fisheries Project - Monitoring And Evaluation	\$ 4,100,251	\$ 4,500,000	\$ 4,500,000	\$ 4,500,000	\$ 4,100,251	-399,749	4,100,251	-399,749	4,100,251	-399,749	As per Council recommendation, project proponent should develop a Master Plan for fall chinook and coho elements of the project. FY07 budget levels consistent with other Plateau Yakama River projects, i.e. maintaining FY06 SOY or less. [See footnote references: R8 (In Lieu), R11 (M&E), YKFP review]	1		Policy - Flatline RM&E pending review
199404300	Lake Roosevelt Fisheries Evaluation Program (formerly Data Collection)	\$ 950,000	\$ 1,171,031	\$ 1,219,306	\$ 1,239,716	\$ 1,171,031	0	1,171,031	-48,275	1,171,031	-68,685	See footnote reference: R11 (M&E).	1		Policy - Flatline RM&E pending review
199105100	M&E Statistical Support For Life-Cycle Studies	\$ 394,655	\$ 414,388	\$ 414,388	\$ 414,388	\$ 394,655	-19,733	394,655	-19,733	394,655	-19,733	See footnote reference: R11 (M&E).	1		Policy - Flatline RM&E pending review
198909600	Genetic Monitoring of Snake River Chinook Salmon and Steelhead	\$ 460,500	\$ 483,525	\$ 483,525	\$ 483,525	\$ 460,500	-23,025	460,500	-23,025	391,425	-92,100	See footnote reference: R11 (M&E).	1		Policy - Flatline RM&E pending review
198805304	Hood River Production Program - ODFW M&E	\$ 474,485	\$ 530,000	\$ 530,000	\$ 530,000	\$ 474,485	-55,515	474,485	-55,515	474,485	-55,515	See footnote reference: R11 (M&E).	1		Policy - Flatline RM&E pending review
198805303	Hood River Production M&E - Ws	\$ 516,646	\$ 540,000	\$ 540,000	\$ 540,000	\$ 516,646	-23,354	516,646	-23,354	516,646	-23,354	See footnote reference: R11 (M&E).	1		Policy - Flatline RM&E pending review
198712700	Smolt Monitoring By Non-Feder	\$ 2,239,743	\$ 2,351,730	\$ 2,351,730	\$ 2,351,730	\$ 2,239,743	-111,987	2,239,753	-111,977	2,239,753	-111,977	See footnote references R11(M&E), 8.2.	1		Policy - Flatline RM&E pending review

% Difference (07) compared to NPCC	% Difference (08) compared to NPCC	% Difference (09) compared to NPCC	3 year % difference compared to NPCC
0%	-49%	#DIV/0!	-25%
-6%	-53%	-100%	-53%
-45%	-100%	-100%	-83%
-69%	-100%	-100%	-90%
-100%	-100%	-100%	-100%
-100%	-100%	-100%	-100%
-100%	-100%	-100%	-100%
-100%	-100%	-100%	-100%
-100%	-100%	-100%	-100%
-100%	-100%	-100%	-100%
-100%	-100%	-100%	-100%
0%	-74%	-87%	-54%
-9%	-14%	-14%	-13%
-24%	-24%	-24%	-24%
-7%	-10%	-12%	-10%
-5%	-5%	-19%	-10%
-21%	-2%	-17%	-14%
-3%	-3%	-17%	-8%
-5%	0%	-15%	-7%
-5%	-5%	-19%	-10%
-5%	-5%	-19%	-10%

% Difference (07) compared to NPCC	% Difference (08) compared to NPCC	% Difference (09) compared to NPCC	3 year % difference compared to NPCC
-5%	-5%	-19%	-10%
0%	-9%	-6%	-5%
-19%	-24%	-29%	-24%
-9%	-9%	-9%	-9%
0%	-4%	-6%	-3%
-5%	-5%	-5%	-5%
-5%	-5%	-19%	-10%
-10%	-10%	-10%	-10%
-4%	-4%	-4%	-4%
-5%	-5%	-5%	-5%

Categories of budget adjustments for Bonneville funding decision, staff draft 04/05/07

Category	Description	# of Projects (BPA 03/27/07)	# of Projects (Council staff refined 04/05/07)	% of recommend	% of areas of concern	FY07-09 \$ Impact
07 Tribal Agreement - BPA FND	BPA funded projects w/out Council recommendation as part of '07 tribal agreement	14	14	4.2%	8.4%	\$7,946,691
07 Tribal Agreement - BPA Increase	Budget increase as part of '07 tribal agreement	9	9	2.7%	5.4%	(\$269,999)
BiOp - BPA FND	"BiOp projects" funded w/out NPCC recommendation	21	21	6.3%	12.7%	\$14,486,390
BiOp - BPA Increase	"BiOp projects" increased	12	12	3.6%	7.2%	\$10,836,322
BPA FND	BPA decided to fund w/out a Council recommendation - unrelated to BiOp or '07 Agreement	4	4	1.2%	2.4%	\$1,029,285
BPA Close	BPA is closing projects that the Council recommended for funding	8	2	0.6%	1.2%	(\$75,896)
BPA DNF	BPA is not funding new projects that the Council recommended for funding	23	5	1.5%	3.0%	(\$2,069,363)
Decrease - Other	Budget changes where: scope is equal, out-year budgets are dependent on deliverables, etc. (See project-specific comments)	11	8	2.4%	4.8%	(\$4,001,031)
In Lieu	Budget changes due to In Lieu ('09 generally at 85% of '07 as a signal that In Lieu issues need to be resolved)	9	13	3.9%	7.8%	(\$4,037,546)
Montana SB Plans	Budget differences for Montana Sub-basin plans	2	2	0.6%	1.2%	(\$95,000)
Policy - FCRPS	BPA budget reflects issues surrounding the project's FCRPS nexus	3	16	4.8%	9.6%	(\$7,615,312)
Policy - RM&E*	BPA leveled the budget for this RM&E project pending further Council review or reduced or closed project for what appear to be low priority RM&E (based on comment field)*	16	30	9.0%	18.1%	(\$10,154,904)
Policy - Flatline Wildlife O&M pending review	BPA leveled the budget for this wildlife O&M project pending further Council review	10	10	3.0%	6.0%	(\$883,447)
Coord. Placeholder	BPA placeholder for coordination in '08 and '09	1	1	0.3%	0.6%	(\$597,058)
Restructuring	Projects were split or combined such that some funding moved among projects	20	19	5.7%	11.4%	(\$3,780,505)
Expense component of capital project	Budget change due to capital/expense allocation	2	2	0.6%		\$900,000
BPA = NPCC FND	BPA agrees with the Council to fund a project and with the recommended budget	113	113	34.0%		\$0
Closure Costs	BPA agrees with the Council that the project should close, but the Council didn't include closure costs	14	14	4.2%		\$1,911,743
FPC	BPA funding for the FPC w/out a NPCC recommendation	1	1	0.3%		\$3,906,912
Viability - Decrease	Budget change without change in project scope	15	12	3.6%		(\$1,746,959)
Viability - Increase	Budget increased budget to make project viable	8	18	5.4%		\$5,420,136
Within Year (+ other)	Budget differences reflect within-year adjustments	6	6	1.8%		(\$178,479)
	Total of Recommended projects, either BPA or Council	322	332	50.0%	166	
BPA = NPCC DNF	BPA agrees with the Council not to fund the project		218			

\$33,269,403 Total Increases of concern

(\$33,580,061) Total Decreases of concern

\$12,138,791 Total Increases probably OK

(\$1,925,438) Total Decreases probably OK

Areas representing BPA agreement with Council or BPA contracting change from Council budget, or unique project (FPC, coordination)

Areas representing potential BPA/ Council policy disagreement and different budget figures for 3 year period

* Retitled from original 03/27/07 draft

Projects for Which BPA had the Same budgets as the NPCC

07 budget differences (Multiple Items)

Province	Data		
	Sum of Council Rec. FY07 (Expense)	Sum of BPA 07 Project-YearBudget (Expense)	Count of Proposal #
Basinwide	\$ 9,731,703	\$ 9,731,703	112
Blue Mountain	\$ 4,172,404	\$ 4,172,404	20
Columbia Cascade	\$ 3,172,333	\$ 3,172,333	25
Columbia Estuary	\$ 1,800,000	\$ 1,800,000	6
Columbia Gorge	\$ 2,096,167	\$ 2,096,167	17
Columbia Plateau	\$ 9,233,440	\$ 9,233,440	49
Intermountain	\$ 9,796,311	\$ 9,796,311	32
Lower Columbia	\$ 1,224,948	\$ 1,224,948	24
Mainstem	\$ 7,506,232	\$ 7,506,232	9
Middle Snake	\$ 939,698	\$ 939,698	6
Mountain Columbia	\$ 12,240,458	\$ 12,240,458	17
Mountain Snake	\$ 13,616,530	\$ 13,616,530	50
Upper Snake	\$ 1,026,543	\$ 1,026,543	3
Grand Total	\$ 76,556,767	\$ 76,556,767	370

Projects for Which BPA and the NPCC had different budgets in '07

07 budget differences (Multiple Items)

Province	BPA \$ Difference Category	Data		
		Sum of Council Rec. FY07 (Expense)	Sum of BPA 07 Project-YearBudget (Expense)	Sum of 07 budget differences
Basinwide	BPA Close	\$ 28,979	\$ 119,116	\$ 90,137
	BPA DNF	\$ 66,667	\$ -	\$ (66,667)
	FPC	\$ -	\$ 1,302,304	\$ 1,302,304
	In Lieu	\$ 2,286,138	\$ 1,930,636	\$ (355,502)
	BiOp - BPA FND	\$ -	\$ 606,000	\$ 606,000
	BiOp - BPA Increase	\$ 3,945,817	\$ 5,178,500	\$ 1,232,683
	Within Year (+ other)	\$ 500,000	\$ 358,045	\$ (141,955)
	Closure Costs	\$ -	\$ 538,641	\$ 538,641
	Policy - Flatline RM&E pending review	\$ 9,566,999	\$ 8,927,603	\$ (639,396)
	Policy - FCRPS	\$ 150,000	\$ 135,600	\$ (14,400)
	07 Tribal Agreement - BPA FND	\$ -	\$ 310,000	\$ 310,000
	07 Tribal Agreement - BPA Increase	\$ 176,333	\$ 297,000	\$ 120,667
	Viability - Decrease	\$ 353,850	\$ 337,000	\$ (16,850)
	Viability - Increase	\$ 3,549,961	\$ 3,746,433	\$ 196,472
Basinwide Total		\$ 20,624,744	\$ 23,786,878	\$ 3,162,134
Blue Mountain	Restructuring	\$ 684,454	\$ 684,454	\$ -
	BiOp - BPA FND	\$ -	\$ 746,922	\$ 746,922
	BiOp - BPA Increase	\$ 1,183,849	\$ 1,554,849	\$ 371,000
	Policy - Flatline Wildlife O&M pending review	\$ 65,000	\$ 48,000	\$ (17,000)
	Policy - Flatline RM&E pending review	\$ 212,000	\$ 199,400	\$ (12,600)
	07 Tribal Agreement - BPA FND	\$ -	\$ 182,974	\$ 182,974
	Decrease - Other	\$ 722,457	\$ 581,215	\$ (141,242)
Viability - Increase	\$ 77,000	\$ 150,532	\$ 73,532	
Blue Mountain Total		\$ 2,944,760	\$ 4,148,346	\$ 1,203,586

07 Evaluation

Columbia Cascade	BiOp - BPA FND	\$ -	\$ 1,472,706	\$ 1,472,706
	Policy - Flatline RM&E pending review	\$ 58,333	\$ -	\$ (58,333)
	07 Tribal Agreement - BPA FND	\$ -	\$ 1,401,000	\$ 1,401,000
	07 Tribal Agreement - BPA Increase	\$ 507,999	\$ 903,999	\$ 396,000
	Viability - Increase	\$ 300,000	\$ 538,584	\$ 238,584
Columbia Cascade Total		\$ 866,332	\$ 4,316,289	\$ 3,449,957
Columbia Estuary	BiOp - BPA Increase	\$ 1,827,000	\$ 2,375,000	\$ 548,000
	Policy - Flatline RM&E pending review	\$ 305,800	\$ -	\$ (305,800)
Columbia Estuary Total		\$ 2,132,800	\$ 2,375,000	\$ 242,200
Columbia Gorge	BPA FND	\$ -	\$ 89,000	\$ 89,000
	Within Year (+ other)	\$ 562,860	\$ 548,666	\$ (14,194)
	Closure Costs	\$ -	\$ 500,000	\$ 500,000
	Policy - Flatline RM&E pending review	\$ 1,363,615	\$ 1,242,238	\$ (121,377)
	07 Tribal Agreement - BPA FND	\$ -	\$ 261,000	\$ 261,000
	Decrease - Other	\$ 536,539	\$ 462,680	\$ (73,859)
Columbia Gorge Total		\$ 2,463,014	\$ 3,103,584	\$ 640,570
Columbia Plateau	BPA FND	\$ -	\$ 166,281	\$ 166,281
	Restructuring	\$ 2,376,689	\$ 2,165,191	\$ (211,498)
	BiOp - BPA FND	\$ -	\$ 223,225	\$ 223,225
	BiOp - BPA Increase	\$ 340,000	\$ 540,000	\$ 200,000
	Within Year (+ other)	\$ 572,848	\$ 670,932	\$ 98,084
	Closure Costs	\$ -	\$ 505,459	\$ 505,459
	Policy - Flatline Wildlife O&M pending review	\$ 333,333	\$ 341,908	\$ 8,575
	Policy - Flatline RM&E pending review	\$ 5,528,533	\$ 4,734,730	\$ (793,803)
	Policy - FCRPS	\$ 400,000	\$ 383,662	\$ (16,338)
	07 Tribal Agreement - BPA FND	\$ -	\$ 2,117,457	\$ 2,117,457
	07 Tribal Agreement - BPA Increase	\$ 993,795	\$ 1,231,129	\$ 237,334
	Viability - Decrease	\$ 824,999	\$ 456,726	\$ (368,273)
Viability - Increase	\$ 1,369,999	\$ 2,317,667	\$ 947,668	
Columbia Plateau Total		\$ 12,740,196	\$ 15,854,367	\$ 3,114,171
Intermountain	BPA DNF	\$ 291,568	\$ -	\$ (291,568)
	BPA FND	\$ -	\$ 60,000	\$ 60,000
	Restructuring	\$ 2,041,919	\$ 1,551,949	\$ (489,970)
	Within Year (+ other)	\$ 679,385	\$ 635,385	\$ (44,000)
	Policy - Flatline RM&E pending review	\$ 512,871	\$ 387,340	\$ (125,531)
	Policy - FCRPS	\$ 756,658	\$ 416,160	\$ (340,498)
	Decrease - Other	\$ 1,163,192	\$ 535,041	\$ (628,151)
Intermountain Total		\$ 5,445,593	\$ 3,585,875	\$ (1,859,718)
Lower Columbia	BPA DNF	\$ 141,200	\$ -	\$ (141,200)
	BiOp - BPA FND	\$ -	\$ 550,000	\$ 550,000
	Closure Costs	\$ -	\$ 65,000	\$ 65,000
	Policy - Flatline Wildlife O&M pending review	\$ 112,735	\$ 100,445	\$ (12,290)
	Policy - FCRPS	\$ 593,855	\$ -	\$ (593,855)
	Viability - Increase	\$ 348,333	\$ 486,206	\$ 137,873
Lower Columbia Total		\$ 1,196,123	\$ 1,201,651	\$ 5,528
Mainstem	BiOp - BPA Increase	\$ 3,000,000	\$ 3,700,000	\$ 700,000
	Within Year (+ other)	\$ 470,000	\$ 505,000	\$ 35,000
	Closure Costs	\$ -	\$ 200,000	\$ 200,000
	07 Tribal Agreement - BPA Increase	\$ 65,000	\$ 421,000	\$ 356,000
	Viability - Decrease	\$ 942,407	\$ 907,200	\$ (35,207)
	Viability - Increase	\$ 1,427,000	\$ 1,538,061	\$ 111,061
Mainstem Total		\$ 5,904,407	\$ 7,271,261	\$ 1,366,854
Middle Snake	BPA DNF	\$ 94,769	\$ -	\$ (94,769)
	In Lieu	\$ 352,558	\$ 250,000	\$ (102,558)
	Policy - Flatline Wildlife O&M pending review	\$ 485,590	\$ 471,447	\$ (14,143)
	Policy - Flatline RM&E pending review	\$ 341,520	\$ 105,000	\$ (236,520)
	Policy - FCRPS	\$ 1,176,693	\$ -	\$ (1,176,693)
Middle Snake Total		\$ 2,451,130	\$ 826,447	\$ (1,624,683)

07 Evaluation

Mountain Columbia	Restructuring	\$ 234,650	\$ 234,650	\$ -
	Expense component of capital project	\$ -	\$ 100,000	\$ 100,000
	Policy - FCRPS	\$ 114,739	\$ 22,000	\$ (92,739)
Mountain Columbia Total		\$ 349,389	\$ 356,650	\$ 7,261
Mountain Snake	BPA FND	\$ -	\$ 130,000	\$ 130,000
	Restructuring	\$ 915,000	\$ 380,000	\$ (535,000)
	BiOp - BPA FND	\$ -	\$ 709,236	\$ 709,236
	BiOp - BPA Increase	\$ 291,096	\$ 365,000	\$ 73,904
	Within Year (+ other)	\$ 1,950,306	\$ 1,903,566	\$ (46,740)
	Closure Costs	\$ -	\$ 102,643	\$ 102,643
	Expense component of capital project	\$ -	\$ 200,000	\$ 200,000
Decrease - Other	\$ 160,373	\$ 350,000	\$ 189,627	
Mountain Snake Total		\$ 3,316,775	\$ 4,140,445	\$ 823,670
Upper Snake	Policy - FCRPS	\$ 355,100	\$ -	\$ (355,100)
Upper Snake Total		\$ 355,100	\$ -	\$ (355,100)
Enforcement	07 Tribal Agreement - BPA FND	\$ -	\$ 610,000	\$ 610,000
Enforcement Total		\$ -	\$ 610,000	\$ 610,000
Grand Total		\$ 60,790,363	\$ 71,576,793	\$ 10,786,430

07 budget differences (Multiple Items)

BPA \$ Difference Category	Data		
	Sum of Council Rec. FY07 (Expense)	Sum of BPA 07 Project-Year Budget (Expense)	Sum of 07 budget differences
BPA Close	\$ 28,979	\$ 119,116	\$ 90,137
BPA DNF	\$ 594,204	\$ -	\$ (594,204)
BPA FND	\$ -	\$ 445,281	\$ 445,281
FPC	\$ -	\$ 1,302,304	\$ 1,302,304
In Lieu	\$ 2,638,696	\$ 2,180,636	\$ (458,060)
Restructuring	\$ 6,252,712	\$ 5,016,244	\$ (1,236,468)
BiOp - BPA FND	\$ -	\$ 4,308,089	\$ 4,308,089
BiOp - BPA Increase	\$ 10,587,762	\$ 13,713,349	\$ 3,125,587
Within Year (+ other)	\$ 4,735,399	\$ 4,621,594	\$ (113,805)
Closure Costs	\$ -	\$ 1,911,743	\$ 1,911,743
Policy - Flatline Wildlife O&M pending review	\$ 996,658	\$ 961,800	\$ (34,858)
Policy - Flatline RM&E pending review	\$ 17,889,671	\$ 15,596,311	\$ (2,293,360)
Expense component of capital project	\$ -	\$ 300,000	\$ 300,000
Policy - FCRPS	\$ 3,547,045	\$ 957,422	\$ (2,589,623)
07 Tribal Agreement - BPA FND	\$ -	\$ 4,882,431	\$ 4,882,431
07 Tribal Agreement - BPA Increase	\$ 1,743,127	\$ 2,853,128	\$ 1,110,001
Viability - Decrease	\$ 2,121,256	\$ 1,700,926	\$ (420,330)
Decrease - Other	\$ 2,582,561	\$ 1,928,936	\$ (653,625)
Viability - Increase	\$ 7,072,293	\$ 8,777,483	\$ 1,705,190
Grand Total	\$ 60,790,363	\$ 71,576,793	\$ 10,786,430

Increases \$19,090,626
Decreases \$8,304,196



Total # of Projects in Province
147
32
41
10
27
91
41
36
17
15
22
63
5
547



Count of 07 budget differenc es2
1
1
1
2
1
4
1
2
13
1
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35
2
3
1
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12

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07 Evaluation

2
1
2
5
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180

Count of Proposal #
1
5
4
1
3
15
21
11
6
14
5
26
2
14
14
8
6
7
17
180

Projects for Which BPA had the Same budgets as the NPCC

07 budget differences (Multiple Items)

Province	Data			Total # of Projects in Province
	Sum of Council Rec. FY07 (Expense)	Sum of BPA 07 Project- YearBudget (Expense)	Count of Proposal #	
Basinwide	\$ 9,731,703	\$ 9,731,703	112	147
Blue Mountain	\$ 4,172,404	\$ 4,172,404	20	32
Columbia Cascade	\$ 3,172,333	\$ 3,172,333	25	41
Columbia Estuary	\$ 1,800,000	\$ 1,800,000	6	10
Columbia Gorge	\$ 2,096,167	\$ 2,096,167	17	27
Columbia Plateau	\$ 9,233,440	\$ 9,233,440	49	91
Intermountain	\$ 9,796,311	\$ 9,796,311	32	41
Lower Columbia	\$ 1,224,948	\$ 1,224,948	24	36
Mainstem	\$ 7,506,232	\$ 7,506,232	9	17
Middle Snake	\$ 939,698	\$ 939,698	6	15
Mountain Columbia	\$ 12,240,458	\$ 12,240,458	17	22
Mountain Snake	\$ 13,616,530	\$ 13,616,530	50	63
Upper Snake	\$ 1,026,543	\$ 1,026,543	3	5
Grand Total	\$ 76,556,767	\$ 76,556,767	370	547

Projects for Which BPA and the NPCC had different budgets in '07

07 budget differences (Multiple Items)

Province	BPA \$ Difference Category	Data			Count of 07 budget differenc es2
		Sum of Council Rec. FY07 (Expense)	Sum of BPA 07 Project- YearBudget (Expense)	Sum of 07 budget differences	
Basinwide	BPA Close	\$ 28,979	\$ 119,116	\$ 90,137	1
	BPA DNF	\$ 66,667	\$ -	\$ (66,667)	1
	FPC	\$ -	\$ 1,302,304	\$ 1,302,304	1
	In Lieu	\$ 2,286,138	\$ 1,930,636	\$ (355,502)	2
	BiOp - BPA FND	\$ -	\$ 606,000	\$ 606,000	1
	BiOp - BPA Increase	\$ 3,945,817	\$ 5,178,500	\$ 1,232,683	4
	Within Year (+ other)	\$ 500,000	\$ 358,045	\$ (141,955)	1
	Closure Costs	\$ -	\$ 538,641	\$ 538,641	2
	Policy - Flatline RM&E pending review	\$ 9,566,999	\$ 8,927,603	\$ (639,396)	13
	Policy - FCRPS	\$ 150,000	\$ 135,600	\$ (14,400)	1
	07 Tribal Agreement - BPA FND	\$ -	\$ 310,000	\$ 310,000	2
	07 Tribal Agreement - BPA Increase	\$ 176,333	\$ 297,000	\$ 120,667	1
	Viability - Decrease	\$ 353,850	\$ 337,000	\$ (16,850)	1
	Viability - Increase	\$ 3,549,961	\$ 3,746,433	\$ 196,472	4
Basinwide Total		\$ 20,624,744	\$ 23,786,878	\$ 3,162,134	35
Blue Mountain	Restructuring	\$ 684,454	\$ 684,454	\$ -	2
	BiOp - BPA FND	\$ -	\$ 746,922	\$ 746,922	3
	BiOp - BPA Increase	\$ 1,183,849	\$ 1,554,849	\$ 371,000	1
	Policy - Flatline Wildlife O&M pending review	\$ 65,000	\$ 48,000	\$ (17,000)	1
	Policy - Flatline RM&E pending review	\$ 212,000	\$ 199,400	\$ (12,600)	1
	07 Tribal Agreement - BPA FND	\$ -	\$ 182,974	\$ 182,974	1
	Decrease - Other	\$ 722,457	\$ 581,215	\$ (141,242)	2
Viability - Increase	\$ 77,000	\$ 150,532	\$ 73,532	1	
Blue Mountain Total		\$ 2,944,760	\$ 4,148,346	\$ 1,203,586	12
Columbia Cascade	BiOp - BPA FND	\$ -	\$ 1,472,706	\$ 1,472,706	8

07 Evaluation

Columbia Cascade	Policy - Flatline RM&E pending review	\$ 58,333	\$ -	\$ (58,333)	1
	07 Tribal Agreement - BPA FND	\$ -	\$ 1,401,000	\$ 1,401,000	3
	07 Tribal Agreement - BPA Increase	\$ 507,999	\$ 903,999	\$ 396,000	2
	Viability - Increase	\$ 300,000	\$ 538,584	\$ 238,584	2
Columbia Cascade Total		\$ 866,332	\$ 4,316,289	\$ 3,449,957	16
Columbia Estuary	BiOp - BPA Increase	\$ 1,827,000	\$ 2,375,000	\$ 548,000	3
	Policy - Flatline RM&E pending review	\$ 305,800	\$ -	\$ (305,800)	1
Columbia Estuary Total		\$ 2,132,800	\$ 2,375,000	\$ 242,200	4
Columbia Gorge	BPA FND	\$ -	\$ 89,000	\$ 89,000	1
	Within Year (+ other)	\$ 562,860	\$ 548,666	\$ (14,194)	1
	Closure Costs	\$ -	\$ 500,000	\$ 500,000	1
	Policy - Flatline RM&E pending review	\$ 1,363,615	\$ 1,242,238	\$ (121,377)	4
	07 Tribal Agreement - BPA FND	\$ -	\$ 261,000	\$ 261,000	1
	Decrease - Other	\$ 536,539	\$ 462,680	\$ (73,859)	2
Columbia Gorge Total		\$ 2,463,014	\$ 3,103,584	\$ 640,570	10
Columbia Plateau	BPA FND	\$ -	\$ 166,281	\$ 166,281	1
	Restructuring	\$ 2,376,689	\$ 2,165,191	\$ (211,498)	6
	BiOp - BPA FND	\$ -	\$ 223,225	\$ 223,225	4
	BiOp - BPA Increase	\$ 340,000	\$ 540,000	\$ 200,000	1
	Within Year (+ other)	\$ 572,848	\$ 670,932	\$ 98,084	1
	Closure Costs	\$ -	\$ 505,459	\$ 505,459	6
	Policy - Flatline Wildlife O&M pending review	\$ 333,333	\$ 341,908	\$ 8,575	1
	Policy - Flatline RM&E pending review	\$ 5,528,533	\$ 4,734,730	\$ (793,803)	4
	Policy - FCRPS	\$ 400,000	\$ 383,662	\$ (16,338)	1
	07 Tribal Agreement - BPA FND	\$ -	\$ 2,117,457	\$ 2,117,457	4
	07 Tribal Agreement - BPA Increase	\$ 993,795	\$ 1,231,129	\$ 237,334	4
Viability - Decrease	\$ 824,999	\$ 456,726	\$ (368,273)	3	
Viability - Increase	\$ 1,369,999	\$ 2,317,667	\$ 947,668	6	
Columbia Plateau Total		\$ 12,740,196	\$ 15,854,367	\$ 3,114,171	42
Intermountain	BPA DNF	\$ 291,568	\$ -	\$ (291,568)	1
	BPA FND	\$ -	\$ 60,000	\$ 60,000	1
	Restructuring	\$ 2,041,919	\$ 1,551,949	\$ (489,970)	2
	Within Year (+ other)	\$ 679,385	\$ 635,385	\$ (44,000)	1
	Policy - Flatline RM&E pending review	\$ 512,871	\$ 387,340	\$ (125,531)	1
	Policy - FCRPS	\$ 756,658	\$ 416,160	\$ (340,498)	1
	Decrease - Other	\$ 1,163,192	\$ 535,041	\$ (628,151)	2
Intermountain Total		\$ 5,445,593	\$ 3,585,875	\$ (1,859,718)	9
Lower Columbia	BPA DNF	\$ 141,200	\$ -	\$ (141,200)	1
	BiOp - BPA FND	\$ -	\$ 550,000	\$ 550,000	2
	Closure Costs	\$ -	\$ 65,000	\$ 65,000	2
	Policy - Flatline Wildlife O&M pending review	\$ 112,735	\$ 100,445	\$ (12,290)	1
	Policy - FCRPS	\$ 593,855	\$ -	\$ (593,855)	4
	Viability - Increase	\$ 348,333	\$ 486,206	\$ 137,873	2
Lower Columbia Total		\$ 1,196,123	\$ 1,201,651	\$ 5,528	12
Mainstem	BiOp - BPA Increase	\$ 3,000,000	\$ 3,700,000	\$ 700,000	1
	Within Year (+ other)	\$ 470,000	\$ 505,000	\$ 35,000	1
	Closure Costs	\$ -	\$ 200,000	\$ 200,000	1
	07 Tribal Agreement - BPA Increase	\$ 65,000	\$ 421,000	\$ 356,000	1
	Viability - Decrease	\$ 942,407	\$ 907,200	\$ (35,207)	2
	Viability - Increase	\$ 1,427,000	\$ 1,538,061	\$ 111,061	2
Mainstem Total		\$ 5,904,407	\$ 7,271,261	\$ 1,366,854	8
Middle Snake	BPA DNF	\$ 94,769	\$ -	\$ (94,769)	2
	In Lieu	\$ 352,558	\$ 250,000	\$ (102,558)	1
	Policy - Flatline Wildlife O&M pending review	\$ 485,590	\$ 471,447	\$ (14,143)	2
	Policy - Flatline RM&E pending review	\$ 341,520	\$ 105,000	\$ (236,520)	1
	Policy - FCRPS	\$ 1,176,693	\$ -	\$ (1,176,693)	3
Middle Snake Total		\$ 2,451,130	\$ 826,447	\$ (1,624,683)	9
Mountain Columbia	Restructuring	\$ 234,650	\$ 234,650	\$ -	2
	Expense component of capital project	\$ -	\$ 100,000	\$ 100,000	1

07 Evaluation

Mountain Columbia	Policy - FCRPS	\$ 114,739	\$ 22,000	\$ (92,739)	2
Mountain Columbia Total		\$ 349,389	\$ 356,650	\$ 7,261	5
Mountain Snake	BPA FND	\$ -	\$ 130,000	\$ 130,000	1
	Restructuring	\$ 915,000	\$ 380,000	\$ (535,000)	3
	BiOp - BPA FND	\$ -	\$ 709,236	\$ 709,236	3
	BiOp - BPA Increase	\$ 291,096	\$ 365,000	\$ 73,904	1
	Within Year (+ other)	\$ 1,950,306	\$ 1,903,566	\$ (46,740)	1
	Closure Costs	\$ -	\$ 102,643	\$ 102,643	2
	Expense component of capital project	\$ -	\$ 200,000	\$ 200,000	1
	Decrease - Other	\$ 160,373	\$ 350,000	\$ 189,627	1
Mountain Snake Total		\$ 3,316,775	\$ 4,140,445	\$ 823,670	13
Upper Snake	Policy - FCRPS	\$ 355,100	\$ -	\$ (355,100)	2
Upper Snake Total		\$ 355,100	\$ -	\$ (355,100)	2
Enforcement	07 Tribal Agreement - BPA FND	\$ -	\$ 610,000	\$ 610,000	3
Enforcement Total		\$ -	\$ 610,000	\$ 610,000	3
Grand Total		\$ 60,790,363	\$ 71,576,793	\$ 10,786,430	180

07 budget differences (Multiple Items)

BPA \$ Difference Category	Data			
	Sum of Council Rec. FY07 (Expense)	Sum of BPA 07 Project-YearBudget (Expense)	Sum of 07 budget differences	Count of Proposal #
BPA Close	\$ 28,979	\$ 119,116	\$ 90,137	1
BPA DNF	\$ 594,204	\$ -	\$ (594,204)	5
BPA FND	\$ -	\$ 445,281	\$ 445,281	4
FPC	\$ -	\$ 1,302,304	\$ 1,302,304	1
In Lieu	\$ 2,638,696	\$ 2,180,636	\$ (458,060)	3
Restructuring	\$ 6,252,712	\$ 5,016,244	\$ (1,236,468)	15
BiOp - BPA FND	\$ -	\$ 4,308,089	\$ 4,308,089	21
BiOp - BPA Increase	\$ 10,587,762	\$ 13,713,349	\$ 3,125,587	11
Within Year (+ other)	\$ 4,735,399	\$ 4,621,594	\$ (113,805)	6
Closure Costs	\$ -	\$ 1,911,743	\$ 1,911,743	14
Policy - Flatline Wildlife O&M pending review	\$ 996,658	\$ 961,800	\$ (34,858)	5
Policy - Flatline RM&E pending review	\$ 17,889,671	\$ 15,596,311	\$ (2,293,360)	26
Expense component of capital project	\$ -	\$ 300,000	\$ 300,000	2
Policy - FCRPS	\$ 3,547,045	\$ 957,422	\$ (2,589,623)	14
07 Tribal Agreement - BPA FND	\$ -	\$ 4,882,431	\$ 4,882,431	14
07 Tribal Agreement - BPA Increase	\$ 1,743,127	\$ 2,853,128	\$ 1,110,001	8
Viability - Decrease	\$ 2,121,256	\$ 1,700,926	\$ (420,330)	6
Decrease - Other	\$ 2,582,561	\$ 1,928,936	\$ (653,625)	7
Viability - Increase	\$ 7,072,293	\$ 8,777,483	\$ 1,705,190	17
Grand Total	\$ 60,790,363	\$ 71,576,793	\$ 10,786,430	180

Increases \$19,090,626
 Decreases \$8,304,196

Projects for Which BPA had the Same budgets as the NPCC in '08

08 budget differences (Multiple Items)

Province	Data			Total # of Project s in Provinc
	Sum of Council Rec. FY08 (Expense)	Sum of BPA 08 Project-Year Budget (Expense)	Count of Proposal #	
Basinwide	\$ 8,221,643	\$ 7,923,114	116	147
Blue Mountain	\$ 3,352,404	\$ 3,352,404	21	32
Columbia Cascade	\$ 2,665,332	\$ 2,665,332	29	41
Columbia Estuary	\$ 1,800,000	\$ 1,800,000	6	10
Columbia Gorge	\$ 4,339,686	\$ 4,339,686	19	27
Columbia Plateau	\$ 7,899,905	\$ 7,899,905	58	91
Intermountain	\$ 5,269,409	\$ 5,269,409	26	41
Lower Columbia	\$ 1,067,927	\$ 1,067,927	26	36
Mainstem	\$ 6,427,972	\$ 6,427,972	10	17
Middle Snake	\$ 100,000	\$ 100,000	3	15
Mountain Columbia	\$ 6,551,380	\$ 6,551,380	12	22
Mountain Snake	\$ 13,020,565	\$ 13,020,565	52	63
Upper Snake	\$ 702,001	\$ 702,001	2	5
Enforcement	\$ -	\$ -	3	3
Grand Total	\$ 61,418,224	\$ 61,119,695	383	550

Projects for Which BPA and the NPCC had different budgets in '08

08 budget differences (Multiple Items)

Province	BPA \$ Difference Category	Data			Count of 08 budget differen ces2
		Sum of Council Rec. FY08 (Expense)	Sum of BPA 08 Project-Year Budget (Expense)	Sum of 08 budget differences	
Basinwide	BPA Close	\$ -	\$ 100,739	\$ 100,739	1
	BPA DNF	\$ 66,666	\$ -	\$ (66,666)	1
	Coord. Placeholder	\$ 2,351,044	\$ 2,052,515	\$ (298,529)	1
	FPC	\$ -	\$ 1,302,304	\$ 1,302,304	1
	In Lieu	\$ 2,286,138	\$ 1,930,636	\$ (355,502)	2
	BiOp - BPA FND	\$ -	\$ 606,000	\$ 606,000	1
	BiOp - BPA Increase	\$ 4,000,817	\$ 5,283,300	\$ 1,282,483	4
	Policy - Flatline RM&E pending review	\$ 10,241,699	\$ 9,139,752	\$ (1,101,947)	13
	Policy - FCRPS	\$ 150,000	\$ 100,000	\$ (50,000)	1
	07 Tribal Agreement - BPA Increase	\$ 176,333	\$ -	\$ (176,333)	1
	Viability - Decrease	\$ 353,850	\$ 337,000	\$ (16,850)	1
	Viability - Increase	\$ 3,974,195	\$ 4,129,805	\$ 155,610	5
Basinwide Total		\$ 23,600,742	\$ 24,982,051	\$ 1,381,309	32
Blue Mountain	In Lieu	\$ 820,000	\$ 656,000	\$ (164,000)	1
	Restructuring	\$ 684,454	\$ 684,454	\$ -	2
	BiOp - BPA FND	\$ -	\$ 483,676	\$ 483,676	2
	BiOp - BPA Increase	\$ 1,183,849	\$ 1,713,849	\$ 530,000	1
	Policy - Flatline Wildlife O&M pending review	\$ 65,000	\$ 48,000	\$ (17,000)	1
	Policy - Flatline RM&E pending review	\$ 212,000	\$ 100,000	\$ (112,000)	1
	Decrease - Other	\$ 722,457	\$ 581,215	\$ (141,242)	2
Viability - Increase	\$ 77,000	\$ 147,642	\$ 70,642	1	
Blue Mountain Total		\$ 3,764,760	\$ 4,414,836	\$ 650,076	11
Columbia Cascade	BiOp - BPA FND	\$ -	\$ 2,906,762	\$ 2,906,762	8
	Policy - Flatline RM&E pending review	\$ 58,333	\$ -	\$ (58,333)	1
	07 Tribal Agreement - BPA FND	\$ -	\$ 379,938	\$ 379,938	1

08 Evaluation

Columbia Cascade	Viability - Increase	\$ 300,000	\$ 432,142	\$ 132,142	2
Columbia Cascade Total		\$ 358,333	\$ 3,718,842	\$ 3,360,509	12
Columbia Estuary	BiOp - BPA Increase	\$ 1,528,612	\$ 2,675,000	\$ 1,146,388	3
	Policy - Flatline RM&E pending review	\$ 191,100	\$ -	\$ (191,100)	1
Columbia Estuary Total		\$ 1,719,712	\$ 2,675,000	\$ 955,288	4
Columbia Gorge	BPA FND	\$ -	\$ 89,000	\$ 89,000	1
	Within Year (+ other)	\$ 589,337	\$ 562,860	\$ (26,477)	1
	Policy - Flatline RM&E pending review	\$ 1,371,239	\$ 1,242,238	\$ (129,001)	4
	Viability - Decrease	\$ 88,500	\$ 86,168	\$ (2,332)	1
	Decrease - Other	\$ 169,825	\$ 139,000	\$ (30,825)	1
Columbia Gorge Total		\$ 2,218,901	\$ 2,119,266	\$ (99,635)	8
Columbia Plateau	BPA FND	\$ -	\$ 143,002	\$ 143,002	1
	Restructuring	\$ 3,278,353	\$ 3,100,235	\$ (178,118)	7
	BiOp - BPA FND	\$ -	\$ 230,884	\$ 230,884	4
	BiOp - BPA Increase	\$ 340,000	\$ 540,000	\$ 200,000	1
	Within Year (+ other)	\$ 572,848	\$ 629,968	\$ 57,120	1
	Policy - Flatline Wildlife O&M pending review	\$ 333,333	\$ 263,406	\$ (69,927)	1
	Policy - Flatline RM&E pending review	\$ 5,528,533	\$ 4,700,251	\$ (828,282)	4
	Policy - FCRPS	\$ 400,000	\$ 383,662	\$ (16,338)	1
	07 Tribal Agreement - BPA FND	\$ -	\$ 750,000	\$ 750,000	1
	07 Tribal Agreement - BPA Increase	\$ 513,666	\$ -	\$ (513,666)	3
	Viability - Decrease	\$ 824,999	\$ 456,726	\$ (368,273)	3
	Viability - Increase	\$ 1,369,999	\$ 2,278,957	\$ 908,958	6
Columbia Plateau Total		\$ 13,161,731	\$ 13,477,091	\$ 315,360	33
Intermountain	BPA DNF	\$ 291,568	\$ -	\$ (291,568)	1
	BPA FND	\$ -	\$ 60,000	\$ 60,000	1
	Restructuring	\$ 2,130,295	\$ 1,551,949	\$ (578,346)	2
	Policy - Flatline Wildlife O&M pending review	\$ 2,591,844	\$ 2,426,885	\$ (164,959)	3
	Policy - Flatline RM&E pending review	\$ 2,414,297	\$ 2,180,420	\$ (233,877)	3
	Policy - FCRPS	\$ 385,662	\$ 300,000	\$ (85,662)	1
	Viability - Decrease	\$ 1,125,176	\$ 1,088,262	\$ (36,914)	2
	Decrease - Other	\$ 1,104,994	\$ 447,591	\$ (657,403)	2
Intermountain Total		\$ 10,043,836	\$ 8,055,107	\$ (1,988,729)	15
Lower Columbia	BPA Close	\$ 151,666	\$ -	\$ (151,666)	1
	BPA DNF	\$ 121,375	\$ -	\$ (121,375)	1
	BiOp - BPA FND	\$ -	\$ 550,000	\$ 550,000	2
	Policy - Flatline Wildlife O&M pending review	\$ 110,631	\$ 100,445	\$ (10,186)	1
	Policy - FCRPS	\$ 630,389	\$ -	\$ (630,389)	4
	Viability - Increase	\$ 190,000	\$ 198,689	\$ 8,689	1
Lower Columbia Total		\$ 1,204,061	\$ 849,134	\$ (354,927)	10
Mainstem	In Lieu	\$ 1,000,000	\$ 500,000	\$ (500,000)	1
	BiOp - BPA Increase	\$ 3,000,000	\$ 3,700,000	\$ 700,000	1
	Within Year (+ other)	\$ 470,000	\$ 505,000	\$ 35,000	1
	Policy - Flatline RM&E pending review	\$ 779,586	\$ 200,000	\$ (579,586)	1
	Viability - Decrease	\$ 147,000	\$ 140,000	\$ (7,000)	1
	Viability - Increase	\$ 1,447,000	\$ 1,558,061	\$ 111,061	2
Mainstem Total		\$ 6,843,586	\$ 6,603,061	\$ (240,525)	7
Middle Snake	BPA DNF	\$ 191,178	\$ -	\$ (191,178)	2
	In Lieu	\$ 628,187	\$ 509,587	\$ (118,600)	2
	Policy - Flatline Wildlife O&M pending review	\$ 521,727	\$ 493,061	\$ (28,666)	3
	Policy - Flatline RM&E pending review	\$ 351,766	\$ -	\$ (351,766)	1
	Policy - FCRPS	\$ 1,497,492	\$ 508,497	\$ (988,995)	4
Middle Snake Total		\$ 3,190,350	\$ 1,511,145	\$ (1,679,205)	12
Mountain Columbia	Restructuring	\$ 101,460	\$ -	\$ (101,460)	1
	Montana SB Plans	\$ 95,000	\$ -	\$ (95,000)	2
	Expense component of capital project	\$ -	\$ 100,000	\$ 100,000	1
	Policy - FCRPS	\$ 106,473	\$ -	\$ (106,473)	2
	Viability - Decrease	\$ 3,270,632	\$ 3,171,958	\$ (98,674)	3
	Decrease - Other	\$ 2,465,200	\$ 1,970,800	\$ (494,400)	1
Mountain Columbia Total		\$ 6,038,765	\$ 5,242,758	\$ (796,007)	10

08 Evaluation

Mountain Snake	Restructuring	\$ 1,250,965	\$ 845,965	\$ (405,000)	5
	BiOp - BPA FND	\$ -	\$ 775,596	\$ 775,596	2
	BiOp - BPA Increase	\$ 291,096	\$ 365,000	\$ 73,904	1
	Within Year (+ other)	\$ 1,950,306	\$ 1,856,982	\$ (93,324)	1
	Expense component of capital project	\$ -	\$ 200,000	\$ 200,000	1
	Decrease - Other	\$ 160,373	\$ -	\$ (160,373)	1
Mountain Snake Total		\$ 3,652,740	\$ 4,043,543	\$ 390,803	11
Upper Snake	Policy - Flatline Wildlife O&M pending review	\$ 395,000	\$ 380,000	\$ (15,000)	1
	Policy - FCRPS	\$ 507,400	\$ -	\$ (507,400)	2
Upper Snake Total		\$ 902,400	\$ 380,000	\$ (522,400)	3
Grand Total		\$ 76,699,917	\$ 78,071,834	\$ 1,371,917	168

08 Differences by Category

08 budget differences (Multiple Items)

BPA \$ Difference Category	Data			
	Sum of Council Rec. FY08 (Expense)	Sum of BPA 08 Project-Year Budget (Expense)	Sum of 08 budget differences	Count of Proposal #
BPA Close	\$ 151,666	\$ 100,739	\$ (50,927)	2
BPA DNF	\$ 670,787	\$ -	\$ (670,787)	5
BPA FND	\$ -	\$ 292,002	\$ 292,002	3
Coord. Placeholder	\$ 2,351,044	\$ 2,052,515	\$ (298,529)	1
FPC	\$ -	\$ 1,302,304	\$ 1,302,304	1
In Lieu	\$ 4,734,325	\$ 3,596,223	\$ (1,138,102)	6
Restructuring	\$ 7,445,527	\$ 6,182,603	\$ (1,262,924)	17
BiOp - BPA FND	\$ -	\$ 5,552,918	\$ 5,552,918	19
BiOp - BPA Increase	\$ 10,344,374	\$ 14,277,149	\$ 3,932,775	11
Within Year (+ other)	\$ 3,582,491	\$ 3,554,810	\$ (27,681)	4
Montana SB Plans	\$ 95,000	\$ -	\$ (95,000)	2
Policy - Flatline Wildlife O&M pending review	\$ 4,017,535	\$ 3,711,797	\$ (305,738)	10
Policy - Flatline RM&E pending review	\$ 21,148,553	\$ 17,562,661	\$ (3,585,892)	29
Expense component of capital project	\$ -	\$ 300,000	\$ 300,000	2
Policy - FCRPS	\$ 3,677,416	\$ 1,292,159	\$ (2,385,257)	15
07 Tribal Agreement - BPA FND	\$ -	\$ 1,129,938	\$ 1,129,938	2
07 Tribal Agreement - BPA Increase	\$ 689,999	\$ -	\$ (689,999)	4
Viability - Decrease	\$ 5,810,157	\$ 5,280,114	\$ (530,043)	11
Decrease - Other	\$ 4,622,849	\$ 3,138,606	\$ (1,484,243)	7
Viability - Increase	\$ 7,358,194	\$ 8,745,296	\$ 1,387,102	17
Grand Total	\$ 76,699,917	\$ 78,071,834	\$ 1,371,917	168

Increases \$13,598,510
Decreases \$12,226,593

Projects for Which BPA had the Same budgets as the NPCC in '09

09 budget differences (Multiple Items)

Province	Data			Total # of Projects in Province
	Sum of Council Rec. FY09 (Expense)	Sum of BPA 09 Project-Year Budget (Expense)	Count of Proposal #	
Basinwide	\$ 7,730,869	\$ 7,432,340	115	147
Blue Mountain	\$ 3,954,861	\$ 3,954,861	22	32
Columbia Cascade	\$ 1,381,333	\$ 1,381,333	27	41
Columbia Estuary	\$ 1,800,000	\$ 1,800,000	6	10
Columbia Gorge	\$ 2,294,686	\$ 2,294,686	19	27
Columbia Plateau	\$ 7,266,500	\$ 7,266,500	55	91
Intermountain	\$ 5,050,746	\$ 5,050,746	26	41
Lower Columbia	\$ 1,169,881	\$ 1,169,881	24	36
Mainstem	\$ 6,364,340	\$ 6,364,340	10	17
Middle Snake	\$ 100,000	\$ 100,000	3	15
Mountain Columbia	\$ 6,133,713	\$ 6,133,713	14	22
Mountain Snake	\$ 10,992,138	\$ 10,992,138	48	63
Upper Snake	\$ 655,679	\$ 655,679	3	5
Enforcement	\$ -	\$ -	3	3
Grand Total	\$ 54,894,746	\$ 54,596,217	375	550

Projects for Which BPA had different budgets as the NPCC in '09

09 budget differences (Multiple Items)

Province	BPA \$ Difference Category	Data			Count of 09 budget differences2
		Sum of Council Rec. FY09 (Expense)	Sum of BPA 09 Project-Year Budget (Expense)	Sum of 09 budget differences	
Basinwide	BPA Close	\$ -	\$ 36,560	\$ 36,560	1
	BPA DNF	\$ 66,667	\$ -	\$ (66,667)	1
	Coord. Placeholder	\$ 2,351,044	\$ 2,052,515	\$ (298,529)	1
	FPC	\$ -	\$ 1,302,304	\$ 1,302,304	1
	In Lieu	\$ 2,586,607	\$ 2,154,868	\$ (431,739)	3
	BiOp - BPA FND	\$ -	\$ 515,100	\$ 515,100	1
	BiOp - BPA Increase	\$ 4,000,817	\$ 5,292,500	\$ 1,291,683	4
	Policy - Flatline RM&E	\$ 9,517,730	\$ 7,955,026	\$ (1,562,704)	13
	Policy - FCRPS	\$ 150,000	\$ 50,000	\$ (100,000)	1
	07 Tribal Agreement - B	\$ 176,334	\$ -	\$ (176,334)	1
	Viability - Decrease	\$ 353,850	\$ 176,900	\$ (176,950)	1
	Viability - Increase	\$ 3,684,702	\$ 4,834,168	\$ 1,149,466	5
Basinwide Total		\$ 22,887,751	\$ 24,369,941	\$ 1,482,190	33
Blue Mountain	In Lieu	\$ 820,000	\$ 557,600	\$ (262,400)	1
	Restructuring	\$ 684,454	\$ 684,454	\$ -	2
	BiOp - BPA FND	\$ -	\$ 483,676	\$ 483,676	2
	BiOp - BPA Increase	\$ 1,183,849	\$ 1,683,849	\$ 500,000	1

09 Evaluation

Blue Mountain	Policy - Flatline Wildlife	\$ 65,000	\$ 48,000	\$ (17,000)	1
	Policy - Flatline RM&E	\$ 212,000	\$ -	\$ (212,000)	1
	Decrease - Other	\$ 120,000	\$ -	\$ (120,000)	1
	Viability - Increase	\$ 77,000	\$ 147,642	\$ 70,642	1
Blue Mountain Total		\$ 3,162,303	\$ 3,605,221	\$ 442,918	10
Columbia Cascade	BPA = NPCC FND	\$ 83,334	\$ 83,333	\$ (1)	1
	BiOp - BPA FND	\$ -	\$ 2,190,161	\$ 2,190,161	8
	Policy - Flatline RM&E	\$ 58,334	\$ -	\$ (58,334)	1
	07 Tribal Agreement - B	\$ -	\$ 1,184,322	\$ 1,184,322	1
	07 Tribal Agreement - B	\$ 116,667	\$ 116,666	\$ (1)	1
	Viability - Increase	\$ 300,000	\$ 432,142	\$ 132,142	2
Columbia Cascade Total		\$ 558,335	\$ 4,006,624	\$ 3,448,289	14
Columbia Estuary	BiOp - BPA Increase	\$ 1,527,000	\$ 2,525,000	\$ 998,000	3
	Policy - Flatline RM&E	\$ 200,400	\$ -	\$ (200,400)	1
Columbia Estuary Total		\$ 1,727,400	\$ 2,525,000	\$ 797,600	4
Columbia Gorge	BPA FND	\$ -	\$ 89,000	\$ 89,000	1
	Within Year (+ other)	\$ 598,649	\$ 562,860	\$ (35,789)	1
	Policy - Flatline RM&E	\$ 1,378,863	\$ 1,242,238	\$ (136,625)	4
	Viability - Decrease	\$ 91,887	\$ 86,168	\$ (5,719)	1
	Decrease - Other	\$ 161,799	\$ 139,000	\$ (22,799)	1
Columbia Gorge Total		\$ 2,231,198	\$ 2,119,266	\$ (111,932)	8
Columbia Plateau	BPA FND	\$ -	\$ 143,002	\$ 143,002	1
	In Lieu	\$ 588,405	\$ 500,144	\$ (88,261)	2
	Restructuring	\$ 3,278,353	\$ 3,100,235	\$ (178,118)	7
	BiOp - BPA FND	\$ -	\$ 235,970	\$ 235,970	4
	BiOp - BPA Increase	\$ 340,000	\$ 474,000	\$ 134,000	1
	Within Year (+ other)	\$ 572,848	\$ 629,968	\$ 57,120	1
	Policy - Flatline Wildlife	\$ 333,333	\$ 263,406	\$ (69,927)	1
	Policy - Flatline RM&E	\$ 5,528,534	\$ 4,700,251	\$ (828,283)	4
	Policy - FCRPS	\$ 430,000	\$ 383,662	\$ (46,338)	2
	07 Tribal Agreement - B	\$ -	\$ 750,000	\$ 750,000	1
	07 Tribal Agreement - B	\$ 513,666	\$ -	\$ (513,666)	3
	Viability - Decrease	\$ 824,999	\$ 456,726	\$ (368,273)	3
	Viability - Increase	\$ 1,369,999	\$ 2,226,143	\$ 856,144	6
Columbia Plateau Total		\$ 13,780,137	\$ 13,863,507	\$ 83,370	36
Intermountain	BPA DNF	\$ 291,568	\$ -	\$ (291,568)	1
	BPA FND	\$ -	\$ 60,000	\$ 60,000	1
	Restructuring	\$ 2,095,773	\$ 1,504,228	\$ (591,545)	2
	Policy - Flatline Wildlife	\$ 2,812,414	\$ 2,426,885	\$ (385,529)	3
	Policy - Flatline RM&E	\$ 2,415,820	\$ 2,180,420	\$ (235,400)	3
	Policy - FCRPS	\$ 411,495	\$ 325,000	\$ (86,495)	1
	Viability - Decrease	\$ 1,121,483	\$ 1,088,262	\$ (33,221)	2
	Decrease - Other	\$ 1,107,230	\$ 442,959	\$ (664,271)	2
Intermountain Total		\$ 10,255,783	\$ 8,027,754	\$ (2,228,029)	15
Lower Columbia	BPA Close	\$ 151,666	\$ -	\$ (151,666)	1
	BPA DNF	\$ 147,250	\$ -	\$ (147,250)	1
	In Lieu	\$ 364,001	\$ -	\$ (364,001)	1
	BiOp - BPA FND	\$ -	\$ 550,000	\$ 550,000	2
	Policy - Flatline Wildlife	\$ 111,609	\$ 100,445	\$ (11,164)	1
	Policy - FCRPS	\$ 559,588	\$ -	\$ (559,588)	4
	Viability - Increase	\$ 348,333	\$ 356,722	\$ 8,389	2
Lower Columbia Total		\$ 1,682,447	\$ 1,007,167	\$ (675,280)	12

09 Evaluation

Mainstem	In Lieu	\$ 1,000,000	\$ 200,000	\$ (800,000)	1
	BiOp - BPA Increase	\$ 3,000,000	\$ 3,700,000	\$ 700,000	1
	Within Year (+ other)	\$ 470,000	\$ 505,000	\$ 35,000	1
	Policy - Flatline RM&E	\$ 779,586	\$ 100,000	\$ (679,586)	1
	Viability - Decrease	\$ 147,000	\$ 140,000	\$ (7,000)	1
	Viability - Increase	\$ 1,447,000	\$ 1,558,061	\$ 111,061	2
Mainstem Total		\$ 6,843,586	\$ 6,203,061	\$ (640,525)	7
Middle Snake	BPA DNF	\$ 298,887	\$ -	\$ (298,887)	2
	In Lieu	\$ 580,868	\$ 378,149	\$ (202,719)	2
	Policy - Flatline Wildlife	\$ 537,292	\$ 493,061	\$ (44,231)	3
	Policy - Flatline RM&E	\$ 362,320	\$ -	\$ (362,320)	1
	Policy - FCRPS	\$ 1,561,692	\$ 508,497	\$ (1,053,195)	4
Middle Snake Total		\$ 3,341,059	\$ 1,379,707	\$ (1,961,352)	12
Mountain Columbia	Restructuring	\$ 106,450	\$ -	\$ (106,450)	1
	Expense component of	\$ -	\$ 100,000	\$ 100,000	1
	Policy - FCRPS	\$ 106,473	\$ -	\$ (106,473)	2
	Viability - Decrease	\$ 3,377,381	\$ 3,171,958	\$ (205,423)	3
	Decrease - Other	\$ 2,866,520	\$ 1,970,800	\$ (895,720)	1
Mountain Columbia Total		\$ 6,456,824	\$ 5,242,758	\$ (1,214,066)	8
Mountain Snake	In Lieu	\$ 1,948,427	\$ 1,656,163	\$ (292,264)	3
	Restructuring	\$ 1,250,965	\$ 845,965	\$ (405,000)	5
	BiOp - BPA FND	\$ -	\$ 650,476	\$ 650,476	2
	BiOp - BPA Increase	\$ 371,096	\$ 525,373	\$ 154,277	2
	Within Year (+ other)	\$ 1,950,306	\$ 1,856,982	\$ (93,324)	1
	Expense component of	\$ -	\$ 200,000	\$ 200,000	1
	Decrease - Other	\$ 160,373	\$ -	\$ (160,373)	1
Mountain Snake Total		\$ 5,681,167	\$ 5,734,959	\$ 53,792	15
Upper Snake	Policy - Flatline Wildlife	\$ 395,000	\$ 380,000	\$ (15,000)	1
	Policy - FCRPS	\$ 688,343	\$ -	\$ (688,343)	1
Upper Snake Total		\$ 1,083,343	\$ 380,000	\$ (703,343)	2
Grand Total		\$ 79,691,333	\$ 78,464,965	\$ (1,226,368)	176

09 Differences by Category

09 budget differences (Multiple Items)

BPA \$ Difference Category	Data			
	Sum of Council Rec. FY09 (Expense)	Sum of BPA 09 Project-Year Budget (Expense)	Sum of 09 budget differences	Count of Proposal #
BPA = NPCC FND	\$ 83,334	\$ 83,333	\$ (1)	1
BPA Close	\$ 151,666	\$ 36,560	\$ (115,106)	2
BPA DNF	\$ 804,372	\$ -	\$ (804,372)	5
BPA FND	\$ -	\$ 292,002	\$ 292,002	3
Coord. Placeholder	\$ 2,351,044	\$ 2,052,515	\$ (298,529)	1
FPC	\$ -	\$ 1,302,304	\$ 1,302,304	1
In Lieu	\$ 7,888,308	\$ 5,446,924	\$ (2,441,384)	13
Restructuring	\$ 7,415,995	\$ 6,134,882	\$ (1,281,113)	17

09 Evaluation

BiOp - BPA FND	\$	-	\$ 4,625,383	\$ 4,625,383	19
BiOp - BPA Increase	\$	10,422,762	\$ 14,200,722	\$ 3,777,960	12
Within Year (+ other)	\$	3,591,803	\$ 3,554,810	\$ (36,993)	4
Policy - Flatline Wildlife	\$	4,254,648	\$ 3,711,797	\$ (542,851)	10
Policy - Flatline RM&E	\$	20,453,587	\$ 16,177,935	\$ (4,275,652)	29
Expense component of	\$	-	\$ 300,000	\$ 300,000	2
Policy - FCRPS	\$	3,907,591	\$ 1,267,159	\$ (2,640,432)	15
07 Tribal Agreement - B	\$	-	\$ 1,934,322	\$ 1,934,322	2
07 Tribal Agreement - B	\$	806,667	\$ 116,666	\$ (690,001)	5
Viability - Decrease	\$	5,916,600	\$ 5,120,014	\$ (796,586)	11
Decrease - Other	\$	4,415,922	\$ 2,552,759	\$ (1,863,163)	6
Viability - Increase	\$	7,227,034	\$ 9,554,878	\$ 2,327,844	18
Grand Total	\$	79,691,333	\$ 78,464,965	\$ (1,226,368)	176

Increases \$14,261,286
Decreases \$15,487,654

Tom Karier
Chair
Washington

Frank L. Cassidy Jr.
"Larry"
Washington

Jim Kempton
Idaho

W. Bill Booth
Idaho



Joan M. Dukes
Vice-Chair
Oregon

Melinda S. Eden
Oregon

Bruce A. Measure
Montana

Rhonda Whiting
Montana

April 5, 2007

MEMORANDUM

TO: Fish and Wildlife Committee

FROM: John Shurts

SUBJECT: Review of in lieu policy

The Committee has asked for a review and discussion of Bonneville's new "in lieu" policy. This is the policy Bonneville developed in mid 2006 and has applied in its decision on projects to fund in FY2007-09. The purpose of this memorandum is to provide background on this issue, with a short set of comments and a recommendation at the end.

"In lieu" provision. The Bonneville in lieu policy is an effort to implement in a systematic way the provision that concludes Section 4(h)(10)(A) of the Northwest Power Act: *"Expenditures of the Administrator pursuant to this paragraph shall be in addition to, not in lieu of, other expenditures authorized or required from other entities under other agreements or provisions of law."*

Bonneville's "in lieu" policy. Bonneville provided the Council with its in lieu policy in a letter dated August 3, 2006, along with "in lieu" ratings for the new project proposals. That letter is attached. Bonneville then provided a preliminary set of in lieu ratings for ongoing projects in October 2006.

Council's programmatic recommendation on the "in lieu" issue for FY2007-09. Following a staff and Council review of the Bonneville's in lieu policy, the Council included the following in its final programmatic recommendations to Bonneville for FY2007-09:

5. In lieu provision

Bonneville has a legal obligation under the Northwest Power Act to protect, mitigate, and enhance fish and wildlife adversely affected by development and operation of the Columbia hydrosystem. This is Bonneville's *responsibility*. To help meet this obligation, Bonneville has the *authority* to fund on-site protection and mitigation actions, offsite habitat and production enhancements, and associated monitoring, evaluation and coordination activities.

Section 4(h)(10)(A) of the act then *limits* that authority in one particular way, in what is called the “in lieu” provision: “Expenditures of the Administrator pursuant to this paragraph shall be in addition to, not in lieu of, other expenditures authorized or required from other entities under other agreements or provisions of law.”

The Council has encouraged Bonneville over the years to develop a policy to help guide Bonneville, the Council and project sponsors through in lieu situations. Bonneville has been working to develop such a policy, the most recent version communicated to the Council in an August 3, 2006, letter from Greg Delwiche, Vice President for Environment, Fish and Wildlife. While there is still work to do before the policy is final, it is a satisfactory place to start. The policy is particularly sound by emphasizing that in situations in which an entity other than Bonneville has overlapping authority to do the type of work represented by a project proposed for Bonneville funding, the key inquiry will be one of proof about expenditures -- that is, whether it can be shown that Bonneville’s funds would be coming in addition to the expenditures of the other entity and not in lieu of or supplanting the funds of the other.

The Bonneville in lieu policy is also sound in recognizing that “[r]easonable cost-sharing (where Bonneville funding is a portion of the overall proposed budget for a proposal) can demonstrate that Bonneville’s funding is not supplanting that of another entity already authorized or required to undertake the activity.” On the other hand, the Council believes the policy is not yet sound in the way it overemphasizes per-project cost sharing as the primary or preferred or default way of proving the absence of an in-lieu problem. There are other ways of equal legal validity to prove that Bonneville’s funds are in addition to and not in lieu of the funds of another entity with overlapping authority. The most obvious, and likely the most common, would be at a scale or level above individual projects, situations in which Bonneville and the other entity are funding activities in parallel or in complement (such as different riparian improvement projects in the same area, or different aspects of a monitoring program), even if no particular project is cost-shared. Bonneville has developed just such an approach in a recent Memorandum of Understanding with the Forest Service; there is no reason the approach cannot work elsewhere, and it need not be implemented only by agreement. The Bonneville letter does recognize the need to consider other “remedies” besides per-project cost sharing for an in-lieu concern, and the Bonneville staff are committed to working with the Council staff to develop these concepts further for consideration by the Council and Bonneville management. The Council expects to be able to consider a further policy proposal early in FY 2007.

Bonneville’s August 3 in-lieu letter also provided preliminary in-lieu ratings for all new project proposals. A small number of the projects prioritized for funding by the local review groups are on the list of projects with serious in-lieu concerns. To the extent the Council’s final funding recommendations include any of these projects, the Council will work with Bonneville and the project sponsors to try to address these concerns, as it appears that funding will not begin until that happens.

Early in October 2006 Bonneville then presented the Council with its preliminary “in lieu” ratings for all ongoing projects in the Council’s draft funding recommendations. The

Council has not had sufficient time to review these ratings in any depth, and they played no role in the Council's final project recommendations. Bonneville confirmed that it was not planning to use these preliminary ratings as a reason not to contract and fund on-going projects in FY 2007. The Council and Bonneville will work together with the project sponsors and others in the next few months to address these concerns. *Northwest Power and Conservation Council, Fish and Wildlife Project Funding Recommendations to the Bonneville Power Administration for Fiscal Years 2007 through 2009 (November 2006), at 7-8.*

Bonneville's FY2007-09 decision and the "in lieu" subject. In its February 2007 decision on the Council's FY2007-09 project funding recommendations, Bonneville finalized its in lieu ratings for ongoing projects. It also partially implemented the ratings through project and budget decisions, especially through a 15% reduction in the FY09 budgets of ongoing projects deemed to raise serious in lieu concerns. The implication is that the project sponsors will solve the in lieu issues in Bonneville's eyes (for that fiscal year at least) by coming up with a 15% cost share. Bonneville further explained its approach in the text of the decision enclosure, including its response to the Council's criticism of the policy as over-emphasizing per-project cost share as the method for avoiding in lieu issues:

For ongoing proposals with in lieu problems (rated "3") or in lieu concerns (rated "2") noted in this final rating table, BPA expects to work with the Council and region to refine the remedies (in addition to project-specific cost-share) that can be used to address them. It should not be assumed that ongoing projects BPA has decided to continue to fund despite having a "2" or a "3" rating will continue to be funded after FY07. In addition, BPA's decision for FY09 generally shows a budget that is 85 percent of the FY07-08 budgets for "3"-rated projects, in order to underscore the need for an increase in cost-share contribution by others. Sponsors of such proposals should expect to work with BPA to identify appropriate cost-share or identify another way of confirming that BPA's funding is in addition to and not in lieu of funding authorized or required of another entity, in order to continue receiving BPA funding after FY07. While the exact amounts will be developed in coordination with the project proponents depending on the cost-share they provide, any post-FY07 budget changes from BPA's initial determination will also be coordinated through the BOG process.

In its discussion of its project recommendations, the Council indicated it did not have significant concerns with BPA's interpretation of the in lieu provision. In the Council's view, however, BPA overemphasized per-project cost-sharing as the primary or preferred way to demonstrate the absence of an in lieu problem. BPA agrees that there are means other than per-project cost-share to confirm that our funding is in addition to and not in lieu of another's. As indicated in our correspondence last fall, BPA recognizes that other kinds of programmatic commitments, such as the agreement between BPA and the U.S. Forest Service regarding BPA-funded projects on National Forest System lands, may be appropriate. The Council suggests that there is

also a mid-level range, something between the project-specific and the programmatic, that could be used to demonstrate that other entities are doing parallel or complementary work, and that such a demonstration would not require a specific agreement between BPA and the other entity.

So long as the Council makes recommendations to BPA on a project-specific basis, the per-project cost-share will likely be BPA's preferred method for assuring there is no in lieu problem. Per-project cost-share is easy to apply and understand, and it is relatively easy to confirm and track (e.g., via PISCES). In addition, cost-sharing is an existing practice in the Program, so utilizing it as the preferred means of confirming the absence of an in lieu problem should pose few difficulties.

BPA is willing to explore alternative means of assuring compliance with the in lieu limitation, such as the "parallel" or "complementary" funding by other entities suggested by the Council. Such alternatives, however, will require additional effort to identify and document the parallel or larger project to which BPA is adding. Without such parameters, the in lieu limit could be rendered superfluous, a result Congress clearly did not intend.

Following the funding decision, BPA will initiate a broader collaborative dialogue with the Council and the region regarding a set of strategies, including per-project cost-sharing and the alternatives, as well as the associated project budgets reflected in BPA's decision, for these in lieu issues. *Bonneville Power Administration, Fish and Wildlife Program Implementation Fiscal Years 2007- 2009 Decision Enclosure (revised February 26, 2007), at 18-19.*

Comments:

- The Council's analysis and programmatic recommendations in its FY2007-09 decision concerning Bonneville's "in lieu" policy remain sound both from a legal and a policy standpoint.
- Discussions of the "in lieu" limitation often and unfortunately get mixed up with discussions about the mitigation responsibilities of Bonneville and the FCRPS. These are very different issues. The point of off-site mitigation under the Power Act is that it gives Bonneville the *authority* to go into the tributaries and estuary and improve conditions for species affected by the hydrosystem by addressing problems caused by others and not by the hydrosystem. The "in lieu" inquiry is thus not about Bonneville's mitigation responsibilities. These are already given in this situation, as they flow from the mainstem mitigation need. Nor does it matter that the problems addressed off-site were not caused by the hydrosystem and thus are not Bonneville's "responsibility" to solve. The point is that Bonneville has the authority and opportunity to address problems caused by others to produce offsetting mitigation for hydrosystem impacts. Nor does the in lieu inquiry depend in the end on the responsibilities and authorities of others -- that is simply

the starting point for knowing whether we even have an in lieu issue. The key inquiry in an in lieu situation, as shown in the plain language of the provision itself, is about *expenditures* -- that is, whether it can be shown that Bonneville's funds are being spent on these activities in way that shows these funds to be in addition to the expenditures of other entities with overlapping authority, and not in lieu of or supplanting the funds of the others. The point of the Power Act was the accomplishment additional mitigation for mainstem impacts; in lieu expenditures do not accomplish additional mitigation.

- Per-project cost share may be one way of offering that proof. But as a legal and practical matter it is not the only way, nor even necessarily sufficient in any particular case. We should be concerned that Bonneville is turning the in-lieu legal restriction on its authority into a per-project cost-share policy. As noted in the Council's programmatic recommendations, this is neither the only way nor the best way in many cases to show legally that an in lieu situation does not exist. Proof that another entity is spending funds on its own, related activities would be legally sufficient to take us out of an in lieu problem despite the lack of a cost share on a particular project. For Bonneville to *require* the project cost share in that situation to avoid an in lieu conclusion would not be legally correct. As noted in the Council's programmatic recommendation, another obvious place to look for proof, and likely the most common, would be at a scale or level above individual projects, situations in which Bonneville and the other entity are funding activities in parallel or in complement (such as different riparian improvement projects in the same area, or different aspects of a monitoring program), even if no particular project is cost-shared.
- The main point: The Council ought to take Bonneville up on its promise to "initiate a broader collaborative dialogue with the Council and the region regarding a set of strategies, including per-project cost-sharing and the alternatives, as well as the associated project budgets reflected in BPA's decision, for these in lieu issues." The Council also ought to look toward addressing this issue in the next program amendments.

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Department of Energy

Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208-3621

Environment, Fish and Wildlife

August 3, 2006

In reply refer to: KE-4

Dr. Tom Karier, Chair
Northwest Power and Conservation Council
851 SW Sixth Avenue, Suite 1100
Portland, OR 97204

Dear Chair Karier:

Northwest Power and Conservation Council (Council) members have asked that Bonneville Power Administration (Bonneville) make its *in lieu* funding concerns known for the proposals received in our joint FY 07-09 solicitation process. Enclosed is a spreadsheet describing our *in lieu* ratings for all of the new project proposals submitted in the solicitation. Also enclosed is the *in lieu* interpretive key and rating system utilized by Bonneville in the rating process.

As you know, the Northwest Power Act obligates Bonneville to use its authorities to fund fish and wildlife measures consistent with the Council's fish and wildlife program and other purposes of the Act. Bonneville's expenditures, however, "shall be in addition to, not in lieu of, other expenditures authorized or required from other entities under other agreements or provisions of law."¹

The application of the in lieu provision & the role of cost-sharing

The *in lieu* provision poses two fundamental questions: is another entity authorized or required by law or agreement to undertake the proposed activity? If so, is Bonneville's funding in addition to, rather than *in lieu* of that entity's funding? While the questions are relatively straightforward, their application to specific project proposals is not. As Bonneville discussed in its letter last fall regarding the Bonneville-Forest Service Memorandum of Understanding (October 25, 2005 letter to Ms. Eden), one of the most difficult aspects of the *in lieu* analysis is addressing off-site projects where there is overlapping authority to perform a project. In most cases, off-site projects (activities off of the mainstem Columbia and Snake Rivers) address the impacts from actions other than the construction or operation of the Federal Columbia River Power System (FCRPS). Yet, by implementing these off-site measures recommended by the Council, Bonneville can still protect, mitigate and enhance fish and wildlife affected by the FCRPS.

In such cases, an entity other than Bonneville is frequently "authorized or required" by "other agreements or provisions of law" to undertake the mitigation. The Act prohibits Bonneville from

¹ 16 U.S.C. § 839b(h)(10)(A).

funding the activity unless Bonneville's funding is in addition to rather than *in lieu* of the entity's funding.

In such situations, cost-sharing is one method for confirming that there is no *in lieu* problem. Reasonable cost-sharing (where Bonneville funding is a portion of the overall proposed budget for a proposal) can demonstrate that Bonneville's funding is not supplanting that of another entity already authorized or required to undertake the activity. With reasonable cost-sharing, Bonneville is confident it can defend against challenges that Bonneville is violating the *in lieu* prohibition. Reasonable cost-sharing reconciles a number of the Act's provisions: the requirement that ratepayers pay only for the impacts of power facilities "not the cost of measures designed to deal with the impacts caused by other factors,"² the plain language of the *in lieu* provision itself, and Congress' intent that enhancement measures be used, in appropriate circumstances, as means of achieving offsite protection and mitigation.³

Bonneville's interpretive key & rating system

Bonneville's interpretation of the provision and how Bonneville applies it to review proposals is described in the enclosed "BPA 'In Lieu' Interpretive Key & Ratings System." Our interpretation is not new, but with this document we provide greater transparency by more explicitly stating our interpretation, underlying assumptions, and the general principles used in our review. Cost-sharing with our project partners has always been a factor considered in *in lieu* reviews; in this key, however, we provide more explicit discussion of the role of cost-sharing as a possible remedy for many potential *in lieu* problems.

As with past practice, Bonneville is rating all proposals a "1" or a "2" or a "3." A "1" rating indicates no *in lieu* concerns, a "2" rating indicates possible *in lieu* concerns, and a "3" rating indicates *in lieu* problems. For 2007, Bonneville will treat the proposals rated as "1" and "2" as fundable. As further delineated in the ratings spreadsheet, however, Bonneville also includes notes about another entity's apparent authority or requirement to fund the activity, the level of cost-sharing (via a rough percentage), and an indication of the status of the cost-sharing proposed. Based on this information and applying the general principles of the key, Bonneville further rated all the "2" proposals as 2.1, 2.2, and 2.3. With these sub-ratings, Bonneville provides its perspective on whether the proposal includes a "reasonable" cost share, with 2.1 being "appears reasonable," a 2.2 "may be reasonable," and 2.3 being "appears unreasonable."

For future solicitations beyond the FY07-09 time period, Bonneville may not support proposals that get a 2.2 or 2.3 rating without additional cost sharing or other remedy for the *in lieu* problem identified. Again, Bonneville considers all projects rated a "2" as fundable for 2007 from an *in lieu* standpoint, but we provide this additional information to give early notice of Bonneville's thinking during this transition period.

² H.R. Rep. No. 96-976, Part II, at 45 (1980); 16 U.S.C. § 839b(h)(8)(B).

³ 16 U.S.C. § 839b(h)(8)(A).

Remedies for in lieu problems

If the Council anticipates recommending Bonneville funding for new proposals in 2007 that are rated in the enclosed list as a “3”, we encourage identification of such project proposals as soon as possible. Bonneville conducted its initial review based on proposals submitted in response to our joint solicitation and listed on the CBFWA website and other publicly available information. As noted in the enclosed key, there are a variety of ways to potentially address an adverse *in lieu* rating, including:

1. Written confirmation including supporting rationale from the proponent that neither it nor any other entity is authorized or required by other agreements or provisions of law to undertake the activity for which Bonneville funding is being sought.
2. Further description of how Bonneville’s funding is in addition to, not *in lieu* of the other entity’s funding, taking into account the principles described in the interpretive key and rating system. For example, a project sponsor could provide additional information showing that it is applying its funds to accomplish other aspects of the same overall project but had not included that explanation in the original proposal.
3. Information about past funding activities by the entity, indicating that the entity has not funded the kind of activity proposed for Bonneville funding.

Since proposals rated as “1” or “2” are considered fundable by Bonneville under the *in lieu* provision for the 07-09 period, BPA does not need additional information about these proposals at this time.

In lieu ratings for on-going project proposals

Bonneville considered whether to evaluate on-going project proposals submitted for the 07-09 solicitation. On the one hand, each of these on-going project proposals has already received an *in lieu* rating in prior project solicitations. On the other hand, some of the project proposals have been modified for the current solicitation. Also, although they are on-going, the nature and extent of another entity’s authority or requirements to undertake the activity may have changed. In addition, we have new or additional information about the amount and nature of cost-sharing offered. As a result, Bonneville concluded it would be reasonable to review all of the on-going project proposals as well, and expects to complete this review by October 1, 2006.

Some on-going proposals that did not have identified *in lieu* issues in past solicitation cycles may now present *in lieu* problems. If an on-going project proposal is rated as a “3” as not fundable, Bonneville expects the project proponent to use the FY07-09 period as a transitional one and seek to remedy the problem in consultation with Bonneville, or wind up the work to be funded by Bonneville in FY’08 and out years.

Our attention to this issue now is intended to offer insights about the appropriate level of cost share that could be expected for those *in lieu* gray areas in the future, particularly for project proposals after 2007. We firmly believe that appropriate adherence to the *in lieu* provision supports a broader, more diverse participation by our project partners, and a more expansive, better coordinated and cost-effective set of ecosystem and recovery efforts.

Thank you for the opportunity to share Bonneville's *in lieu* analysis. I look forward to working with you on these issues.

Sincerely,



Gregory K. Delwiche
Vice President, Environment, Fish and Wildlife

2 Enclosures:
New Proposals Only
In Lieu Key

cc:

Ms. Judi Danielson, Northwest Power & Conservation Council
Mr. Jim Kempton, Northwest Power & Conservation Council
Ms. Joan Dukes, Northwest Power & Conservation Council
Mr. Bruce Measure, Northwest Power & Conservation Council
Ms. Rhonda Whiting, Northwest Power & Conservation Council
Mr. Larry Cassidy, Northwest Power & Conservation Council
Ms. Melinda Eden, Northwest Power & Conservation Council
Mr. Doug Marker, Northwest Power & Conservation Council
Mr. Brian Lipscomb, Columbia Basin Fish & Wildlife Authority
Chairman Dean Adams, Burns Paiute Tribe
Chairman Chief Allan, Coeur d'Alene Tribe
Chairman Mike Marchand, Confederated Tribes of the Colville Reservation
Chairman Glen Nenema, Kalispel Tribe
Chairperson Jennifer Porter, Kootenai Tribe of Idaho
Chairperson Rebecca Miles, Nez Perce Tribe
Chairman James Steele Jr., Confederated Salish & Kootenai Tribes
Chairman Alonzo Coby, Shoshone Bannock Tribes of Fort Hall
Chairman Terry Gibson, Shoshone Paiute Tribes of the Duck Valley Reservation
Chairman Richard Sherwood, Spokane Tribe of Indians
Chairman Antone Minthorn, Confederated Tribes of the Umatilla Indian Reservation
Chairman Ron Suppah, Confederated Tribes of the Warm Springs Reservation
Chairman Lavina Washines, Yakama Indian Nation
Ms. Mary Verner, Upper Columbia United Tribes
Mr. Olney Patt, Jr., Columbia River Intertribal Fish Commission

Proposal Number	Project Title	Species Type	Province	Organization	In lieu rating	Notes	Approx. BPA share of total costs?	Status of Cost Share	
200700100	Aquatic survey protocol comparison.	Anadromous	Mainstem/ Systemwide	US Forest Service - National Headquarters	1.0	General aquatic survey protocols; assume covered by MOU	BPA 70% (84)	Under Dev.	
200700300	Dworshak Dam Resident Fish Mitigation	Resident	Mountain Snake	Idaho Department of Fish & Game	1.0	FCRPS mitigation; strobes	BPA 80%	Under Dev.	
200701300	Convert BPA Term Riparian Lease Agreements to Permanent Riparian Conservation Easements	Anadromous	Columbia Plateau	John Day Basin Trust	1.0	Purchase perpetual riparian easements where BPA provided riparian fencing previously; assume wildlife HUs	BPA 91%	Mixed	
200702000	Manastash Instream Flow Enhancement	Anadromous	Columbia Plateau	Kittitas County Conservation District	1.0	Close piping of irrigation, other efficiencies (assuming irrigators not required to do)	BPA 88%	Mixed	
200702400	Coeur d'Alene Trout Ponds	Resident	Intermountain	Coeur D'Alene Tribe	1.0	Trout ponds to replace lost fishery; assume this is for FCRPS and Avista will be providing additional ponds via relicensing	BPA 96%	Confirmed	
200702500	Project Compliance Monitoring	All	Mainstem/ Systemwide	XLSolutions	1.0	Independent compliance monitoring of BPA-funded Council projects	BPA 100%		
200702700	Colville Confederated Tribes Acquisition Project	Wildlife	Intermountain	Colville Confederated Tribes	1.0	FCRPS wildlife mitigation project	BPA 100%		
200703300	Monitor sub adult and adult bull trout passage through Lower Granite, Little Goose and Lower Monumental juvenile bypass facilities.	Resident	Mainstem/ Systemwide	US Fish & Wildlife Service (USFWS)	1.0	FCRPS bypass monitoring	BPA 100%		
200703500	UPA Project - Methow Basin Riparian Enhancement	Anadromous	Columbia Cascade	Methow Salmon Recovery Foundation	1.0	Riparian fencing/planting, mostly on private; assume that some in lieu problem sites (eg fencing at WDFW managed campground) excluded from funding	BPA 85%	Confirmed	
200704000	Upper Columbia Landowner Incentive Program	Resident	Intermountain	Washington Department of Fish and Wildlife (WDFW)	1.0	Proposed WDFW competitive grant program for private landowners doing various habitat restoration activities; assume program will exclude projects for which landowner may be required to perform the	BPA 92%	Mixed	

						restoration			
200704100	Kalispell Riparian Road Removal	Resident	Intermountain	Washington Department of Fish and Wildlife (WDFW)	1.0	Road decommissioning of FS road); assume covered by BPA-FS MOU	BPA 70% (64)	Mixed	
200704200	UPA Wenatchee Passage Program	Anadromous	Columbia Cascade	Chelan County Natural Resources Department	1.0	Road decommission/culvert replacement on FS lands; assume covered by BPA-FS MOU	BPA 70% (87)	Confirmed	
200704400	Kettle River Tributaries Riparian Habitat Improvement Project	Resident	Intermountain	Ferry Conservation District	1.0	Offstream water sources on NFS land for grazing mitigation; assume covered by FS MOU	BPA 70%	Confirmed	
200705200	Chum Salmon Evaluations Within Bonneville Reservoir	Anadromous	Columbia Gorge	Washington Department of Fish and Wildlife (WDFW)	1.0	BON reservoir monitoring	BPA 78%	Mixed	
200705300	Upper Lolo Creek Watershed Restoration	Resident	Mountain Columbia	US Forest Service: Lolo National Forest	1.0	FS road mitigation; assume covered by BPA-FS MOU	BPA 70%(75)	Mixed	
200705400	Entiat River - UPA - Stillwater Restoration Project	Anadromous	Columbia Cascade	Chelan County Conservation District (SWCD)	1.0	Provide LWD, plantings for riparian restoration on private lands, assume no other entities authorized/required to install here (i.e., no order from state agencies/others to private entities for addressing christmas tree/anchoring?)	BPA 87%	Confirmed	
200706400	Protect and Restore Slate Creek	Anadromous	Mountain Snake	Nez Perce Tribe Dept. Fisheries Resource Management Watershed Division	1.0	Road decommission/culvert replacement on FS lands; assume covered by BPA-FS MOU	BPA 70%(76)	Mixed	
200706500	Coordinate and implement tributary habitat restoration in the Little Salmon River and lower Salmon River Idaho	Anadromous	Mountain Snake	Idaho Soil and Water Conservation District	1.0	Addressing impacts of grazing/irrigation on private lands; assuming covered by BOR MOU	BPA 66%	Under Dev.	
200706700	Lawyer Creek Idaho A-Run Steelhead Spawning and Rearing Restoration and	Anadromous	Mountain Snake	Lewis Soil Conservation District	1.0	Addressing impacts of grazing/agriculture on private lands; assume no entity	BPA 90%	Mixed	

	Enhancement					authorized/required to act due to ESA concerns			
200707300	Dynamics of Gravel Spawning Beds in Lake Pend Oreille, ID	Resident	Intermountain	Woods Hole Oceanographic Institution	1.0	Research re: effects of Albeni Falls on LPO	BPA 86%	Confirmed	
200707700	Hemlock Dam Removal	Anadromous	Columbia Gorge	Gifford Pinchot National Forest	1.0	Removal of FS dam impacting listed steelhead; FS already authorized/required to remove (see NEPA ROD), but assume covered by MOJ	BPA 70% (73)	Under Dev.	
200708400	Shrubsteppe Habitat Acquisition for Terrestrial Species in Need of Conservation in the Upper Mid-Columbia Subbasin.	Wildlife	Columbia Cascade	Washington Department of Fish and Wildlife (WDFW)	1.0	Wildlife mitigation for FCRPS	BPA 55%	Confirmed	
200708500	UPA Nason Creek Oxbow Reconnection Project	Anadromous	Columbia Cascade	Chelan County Natural Resources Department	1.0	Install arch culverts for oxbow reconnection, mixed private/federal land, assume no entity required to do so	BPA 100%		
200708600	UPA Wenatchee Subbasin Riparian Enhancement Proposal	Anadromous	Columbia Cascade	Chelan County Natural Resources Department	1.0	Fencing/planting of riparian buffer zones on private land, assume no landowner requirement	BPA 100%		
200709200	Restore Selway River Watershed	Anadromous	Mountain Snake	Nez Perce Tribe DFRM Watershed Division	1.0	Culvert replacements on FS lands; assume covered by BPA-FS MOU	BPA 70% (70)	Mixed	
200709300	Restore Middle Fork Clearwater Face Drainages	Resident	Mountain Snake	Nez Perce Tribe DFRM Watershed Division	1.0	Culvert replacements, road decommis. on FS lands, also riparian fencing; assume covered by BPA-FS MOU	BPA 70% (77)	Under Dev.	
200709400	Protect & Restore Clear Creek Watershed	Anadromous	Mountain Snake	Nez Perce Tribe DFRM Watershed Division	1.0	Culvert replacements, road decommis. on FS lands; assume covered by BPA-FS MOU	BPA 70% (77)	Mixed	
200710300	Skookumchuck Watershed	Anadromous	Columbia Cascade	Washington Department of Fish and Wildlife (WDFW)	1.0	Habitat acquisition for fish protection, irrigation/road/grazing mitigation; okay assuming no other entity (eg Grant Co PUD) required to obtain parcel	BPA 100%		

200710400	Protect and Restore White Bird Creek	Anadromous	Mountain Snake	Nez Perce Tribe Dept. Fisheries Resource Management Watershed Division	1.0	Culvert replacements, road decommission on FS lands; assume covered by BPA-FS MOU	BPA 70% (70)	Mixed	
200711100	Assess impacts of flow augmentation on bull trout in the North Fork and Lower Clearwater Rivers	Resident	Mountain Snake	Idaho Department of Fish & Game	1.0	Bull trout impacts, Dworshak flow augmentation	BPA 100%		
200711200	Teanaway Watershed - Protect critical habitat from development, reduce water temperatures and increase instream flows, restore habitat forming processes in the floodplain.	Anadromous	Columbia Plateau	Kittitas Conservation Trust	1.0	Riparian conservation easements	BPA 78%	Confirmed	
200711700	Comprehensive Assessment of Coho Salmon Restoration Efforts in the Mid-Columbia and Mid-Snake River Basins	Anadromous	Mainstem/ Systemwide	Columbia River Inter-Tribal Fish Commission (CRITFC)	1.0	Fund symposium and other coordination of coho reintroduction	BPA 70%	Under Rev.	
200711800	Protect and Restore Anadromous Fish Habitat in Little Naches River Watershed.	Anadromous	Columbia Plateau	US Forest Service (USFS) - Wenatchee National Forest	1.0	Purchase checkerboard lands for Forest Service, Little Naches watershed, assume covered by FS MOU	BPA 70% (90)	Under Dev.	
200711900	Restore Access to Upper Musselshell Creek	Anadromous	Mountain Snake	Nez Perce Tribe DFRM Watershed Division	1.0	Channel realignment on FS lands after blockage by historic mining tunnel; FS is authorized/required; assume covered by MOU	BPA 70%(77)	Under Dev.	
200712400	Okanogan County Irrigation Water Management Improvement Project	Anadromous	Columbia Cascade	Okanogan Soil & Water Conservation District (SWCD)	1.0	Upgrade irrigation systems for efficiency; assuming no order/requirement to do so	BPA 95%	Confirmed	
200712500	Protect and Restore the Tucannon River Watershed - Nez Perce Tribe	Anadromous	Columbia Plateau	DFRM Watershed Division	1.0	Road decommission/culvert replacement on FS lands; assume BPA-FS MOU applies	BPA 70% (79)	Mixed	
200712700	Reestablish Connectivity and Restore Fish Habitat in	Anadromous	Mountain Snake	Nez Perce Tribe DFRM Watershed	1.0	Reestablish passage through falls, on FS lands; assume	BPA 70%(58)	Mixed	

	the East Fork of the South Fork Salmon River Watershed			Division		covered by BPA-FS MOU			
200712800	Protect and Restore the Little Salmon Watershed	Anadromous	Mountain Snake	Nez Perce Tribe DFRM Watershed Division	1.0	Culvert removal, fencing on FS lands; assume covered by BPA-FS MOU	BPA 70% (85)	Mixed	
200713200	NEOH Monitoring & Evaluation Implementation (Formerly a component of 198805301)	Anadromous	Blue Mountain	Tribe: Nez Perce Tribe, State: Oregon Department of Fish and Wildlife	1.0	Hatchery M&E; although fishery managers authorized/required, assume FCRPS obligation here since FCRPS hatchery	BPA 73%	Mixed	
200713400	Restore and Protect Crooked River Watershed	Anadromous	Mountain Snake	Nez Perce Tribe	1.0	Culvert replacements, road decommis on FS lands; assume covered by BPA-FS MOU	BPA 70% (62)	Mixed	
200713900	Rock Creek Stabilization and Habitat Rehabilitation	Anadromous	Columbia Gorge	Skamania County	1.0	LWD etc to improve pool/riffle habitat; assume no other entity required to perform	BPA 85%	Mixed	
200714200	Restore and Protect American River Watershed	Anadromous	Mountain Snake	Nez Perce Tribe	1.0	Culvert replace, trib restoration, weed control on FS lands; assume covered by BPA-FS MOU	BPA 70% (80)	Mixed	
200714400	Evaluation of water temperature exposure in the Columbia River hydrosystem on reproductive success of adult and juvenile Chinook salmon and steelhead	Anadromous	Mainstem/ Systemwide	University of Idaho	1.0	FCRPS temp evaluation	BPA 5%	Confirmed	
200714500	Okanogan Livestock and Water	Anadromous	Columbia Cascade	Okanogan Soil & Water Conservation District (SWCD)	1.0	Livestock mitigation (watering sites, fencing)"allowing producers to respond to and prevent complaints;" other entities authorized/required (livestock owners)	BPA 100%		
200715300	Cardwell Hills Wildlife Mitigation and regional Biodiversity Protection Project	Wildlife	Lower Columbia	David Evans and Associates, Inc.	1.0	Wildlife mitigation (but need to confirm FCRPS mitigation species/habitats being acquired & that BPA receiving habitat unit credits, not clear from proposal)-if mitigation	BPA 99.7%	Confirmed	

						authorized/required from other entities, this would be rated a 2.3.			
200715500	Develop a Master Plan for a Rearing Facility to Enhance Selected Populations of White Sturgeon in the Columbia River Basin	Resident	Mainstem/Sy stemwide	Columbia River Inter-Tribal Fish Commission (CRITFC)	1.0	White sturgeon hatchery planning; although other entities authorized/required (fishery managers, other dam operators etc), assume okay because will clearly mitigate for FCRPS	BPA 100%		
200716900	Total Dissolved Gas Effects on Incubating Chum Salmon Below Bonneville Dam	Anadromous	Lower Columbia	Pacific Northwest National Laboratory	1.0	BON TDG	BPA 100%		
200717300	Upper South Fork McKenzie Channel Restoration	Anadromous	Lower Columbia	US Forest Service (USFS) - Willamette	1.0	Channel restoration on FS lands; assume BPA-FS MOU covers	BPA 70%(71)	Confirmed	
200717800	Monitoring fine sediment delivery in the Entiat subbasin	Anadromous	Columbia Cascade	US Forest Service (USFS) - Pacific Northwest Research Station	1.0	Develop/test protocols for evaluating fine sediment delivery; assume covered by MOU	BPA 70% (75)	Mixed	
200718000	Evaluating and prioritizing restoration of riparian habitat for improving in-stream conditions for anadromous salmonids in the Columbia River basin.	Anadromous	Mainstem/Sy stemwide	US Forest Service (USFS) - Pacific Northwest Research Station	1.0	Aquatic/riparian model development, assume covered by MOU	BPA 70%(93)	Confirmed	
200718100	Lower Lawyer Creek Stream Restoration Project	Anadromous	Mountain Snake	Flying B Ranch	1.0	Restoring channel meander on private land; assume no ESA or other requirement to do so	BPA 90%	Confirmed	
200718300	Restoration of Historical Salmonid Habitat in South West Idaho	Anadromous	Multiprovinc e	Southwest Idaho RC&D	1.0	Culvert removal on FS lands; assume BPA-FS MOU covers?	BPA 70%(65)	Mixed	
200718600	Middle Fork Willamette River Bull Trout Passage and Habitat Restoration	Resident	Lower Columbia	US Forest Service	1.0	Replacing FS road culvert, assume BPA-FS MOU covers	BPA 70%(49)	Mixed	
200719300	Evaluate potential to enhance spawning of summer/fall chinook salmon in the tailrace of	Anadromous	Columbia Cascade	Colville Confederated Tribes	1.0	FCRPS tailrace spawning	BPA 100%		

	Chief Joseph Dam, Columbia River, WA								
200719400	Oak Flats Acquisition and Habitat Enhancement	Anadromous	Columbia Plateau	Washington Department of Fish and Wildlife (WDFW)	1.0	Anadromous fish habitat acquisition (addressing irrigation impacts/Wapatox etc)	BPA 86%	Mixed	
200721200	Develop a locally-adapted summer steelhead program to supplement natural production throughout the Okanogan River basin	Anadromous	Columbia Cascade	Colville Confederated Tribes	1.0	Evaluate expansion of Cassimer Bar hatchery for steelhead supplementation; assume in mitigation for FCRPS	BPA 85%	Under Rev.	
200721400	UPA Project - Fender Mill Floodplain Restoration - Phase 1	Anadromous	Columbia Cascade	Methow Salmon Recovery Foundation	1.0	Reconnect floodplain via dike removal etc; assume no entity already required to do	BPA 67%	Confirmed	
200721700	Operation and Maintenance for Walla Walla Basin Passage Projects	Anadromous	Columbia Plateau	Gardena Farms Irrigation Dist. and Hudson Bay Dist. Improvement Co.	1.0	O&M on BPA-constructed screens; assume BPA has already agreed to fund	BPA 100%		
200721900	Clackamas Watershed Prioritized Fish Passage Barrier Removal	Anadromous	Lower Columbia	Clackamas River Basin Council	1.0	Removal of road crossing barrier on private land; assume landowner not already required to address due to impacts to listed species	BPA 88%	Mixed	
200722000	Water and Economic Optimization Project to Restore Streamflow in Fifteenmile Creek in the Fifteenmile Sub-basin.	Anadromous	Columbia Gorge	Wyeast Resource Conservation & Development Area Council	1.0	Testing new approach to withdrawals for irrigation (assuming no order, consent decree etc requiring increased flows here)	BPA 96%	Mixed	
200722900	Development of protocols and priorities for re- establishing naturally reproducing populations of Upper Willamette River Chinook Salmon above US Army Corps of Engineers dams in the Willamette Subbasin	Anadromous	Lower Columbia	Oregon Department of Fish & Wildlife (ODFW)	1.0	FCRPS Willamette mitigation (re-population above blockages)	BPA 66%	Mixed	

200723200	Okanogan-Similkameen Habitat Protection Project - Fish and wildlife habitat protection through fee simple and conservation easement purchases.	Wildlife	Columbia Cascade	Washington Department of Fish and Wildlife (WDFW)	1.0	Assuming wildlife HUs to be obtained	BPA 100%		
200723500	Proposal to Create a Sub-Basin Plan for the Blackfoot River Sub-Basin	Resident	Mountain Columbia	Trout Unlimited	1.0	(Because we funded development of other sub-basin plans)	BPA 83%	Confirmed	
200723600	Strategic Adaptation of the Federal Columbia River Power System to Climate Variability and Change	Anadromous	Mainstem/Sy stemwide	Portland State University	1.0	FCRPS response to climate change (models & remote sensing)	BPA 96%	Confirmed	
200723700	UPA Project - Elbow Coulee Floodplain Restoration	Anadromous	Columbia Cascade	Methow Salmon Recovery Foundation	1.0	Dike removal, LWD install, assume no entity already required	BPA 57%	Confirmed	
200724200	Fifteenmile Subbasin Efficient Irrigation Technology	Anadromous	Columbia Gorge	Wasco County Soil & Water Conservation District (SWCD)	1.0	Upgrade irrigation systems for efficiency; assume no order/requirement to do so	BPA 72%	Mixed	
200724300	Crab Creek Subbasin Plan 2007	Wildlife	Columbia Plateau	Washington Department of Fish and Wildlife (WDFW)	1.0	Subbasin plan fix it	BPA 100%		
200724600	Restoration of bull trout passage at Albeni Falls Dam using a trap-and-haul approach in conjunction with investigations to assess effectiveness of rapid genetic analysis in assigning natal tributary	Resident	Intermountain	Kalispel Tribe	1.0	Albeni Falls & bull trout	BPA 100%		
200724700	Priscilla Peak Wildlife Habitat Restoration (Prescribed Fire)	Wildlife	Mountain Columbia	US Forest Service	1.0	Prescribed fire, wildlife in MT assume covered by MOU	BPA 70%(82)	Mixed	
200725500	Protect and Restore the Middle Lochsa	Anadromous	Mountain Snake	Nez Perce Tribe DFRM Watershed Division	1.0	Culvert replacement, road decomiss on FS lands; assume covered by BPA-FS MOU?	BPA 70% (90)	Under Rev.	
200725900	Wilson Creek Relocation	Resident	Columbia	Central Washington	1.0	Relocate/rehab creek on campus;	BPA	Mixed	

	and Rehabilitation		Plateau	University		assume not required to perform already	61%		
200726000	Acquisition of a Conservation Easement over 1084 acres of Upland Prairie and Oak Habitat, Willamette Subbasin	Wildlife	Lower Columbia	Nature Conservancy	1.0	Wildlife HUs; note too fish interests	BPA 53%	Confirmed	
200726400	UPA Project - Programmatic Habitat Complexity Projects in the Methow River Subbasin	Anadromous	Columbia Cascade	Methow Salmon Recovery Foundation	1.0	Remove dikes, reconnect side channels; assume no existing entity required to conduct	BPA 71%	Under Dev.	
200726500	Complete and Coordinate a Subbasin Plan for the Bitterroot Watershed	Resident	Mountain Columbia	Montana Water Trust	1.0	(Assuming BPA is responsible for new subbasin plans since it funded the original set)	BPA 100%		
200726900	Clearwater Coho Restoration Project	Anadromous	Mountain Snake	Nez Perce Tribe	1.0	Hatchery mitigation, Clearwater, coho, mitigating for Dworshak (but also note, non FCRPS dams originally blocked passage)	BPA 100%		
200727000	Lake Rufus Woods Subbasin Area Stock Assessment, Habitat Assessment and Fisheries Evaluation Program	Resident	Intermountain	Colville Confederated Tribes	1.0	FCRPS reservoir stock assessment, management issues, assume in mitigation for FCRPS	BPA 100%		
200727100	Willamette Basin Capitalized Wildlife Land Acquisitions	Wildlife	Lower Columbia	The Confederated Tribes of Grand Ronde	1.0	Wildlife HUs, minimum HUs promised (650)	BPA 99%	Confirmed	
200727700	Hamilton Creek Stabilization and Habitat Rehabilitation	Anadromous	Lower Columbia	Skamania County	1.0	LWD installment, for BON2 powerhouse mitigation	BPA 70%	Confirmed	
200728000	Columbia River Basin Journal	All	Mainstem/Sy stemwide	Intermountain Communications	1.0	No other entity known to be authorized/required to fund	BPA 94%	Confirmed	
200728300	UPA Wenatchee Subbasin Access Proposal	Anadromous	Columbia Cascade	Chelan County Natural Resources Department	1.0	Channel realignment, LWD etc on private lands	BPA 100%		
200728600	Deschutes Cooperative Stream Flow Restoration	Anadromous	Columbia Plateau	Deschutes Soil and Water Conservation District	1.0	Restoration of streamflows above PRB; instream flow acquisition, irrigation efficiencies	BPA 4%	Mixed	

200728700	Delivering Reliable Fish Passage Information for Hydrosystem Management	Anadromous	Mainstem/Sy stemwide	Pacific Northwest National Laboratory	1.0	FPC (1 rating for all activities in program & mainstem amendment)	BPA 100%		
200728800	Touchet Eastside and Westside Irrigation District Piping	Anadromous	Columbia Plateau	Walla Walla County Soil & Water Conservation District (SWCD)	1.0	Piping of diversions, assume irrigators not required to do	BPA 45%	Confirmed	
200729200	EFFECTIVENESS MONITORING OF IN-STREAM HABITAT RESTORATION IN THE LOWER ENTIAI BASIN AT MICROHABITAT AND REACH SCALES	Anadromous	Columbia Cascade	US Forest Service (USFS) - Pacific Northwest Research Station	1.0	Effectiveness monitoring of instream restoration, assume covered by MOU	BPA 70% (64)	Under Rev.	
200729500	Crow Creek BPA Powerline Channel Restoration Project	Resident	Mountain Columbia	US Forest Service: Lolo National Forest	1.0	Channel reconstruction, assume covered by MOU	BPA 70%(43)	Mixed	
200730000	Fish Passage Technical Services Project	Anadromous	Mainstem/Sy stemwide	Columbia River Inter-Tribal Fish Commission (CRITFC)	1.0	Technical/analytical support to fishery agencies for regional collaboratives (eg BiOp remand)	BPA 98%	Confirmed	
200731100	Acquire Land to Protect Critical Habitat in the Upper Lochsa	Anadromous	Mountain Snake	Nez Perce Tribe DFRM Watershed Division	1.0	Purchase Clearwater NF inholding, assume MOU covers	BPA 70% (97)	Confirmed	
200731200	Albeni Falls Dam Operational Loss Assessment of Riparian Ecological Function in the Pend Oreille River Ecosystem	Wildlife	Intermountain	Kalispel Tribe	1.0	Loss assessment for operations	BPA 97%	Confirmed	
200731600	McKenzie Canyon Irrigation Project	Anadromous	Columbia Plateau	Deschutes River Conservancy	1.0	Convert open canal to pipe, provide instream flows (no apparent order/decreed requiring; no BiOp for BOR?)	BPA 58%	Mixed	
200731800	Entiat River - UPA - Knapp-Wham Hanan Detwiler Irrigation System Consolidation Project.	Anadromous	Columbia Cascade	Chelan County Conservation District (SWCD)	1.0	Wells, other irrigation consolidation; assume irrigation entities not already required to do to address passage barriers	BPA 76%	Confirmed	
200732100	Data Management for	All	Mainstem/Sy	Columbia Basin	1.0	FPC (assume all activities are	BPA	Under	

	System Operations		stemwide	Fish & Wildlife Authority (CBFWA)		included in program or mainstem amendment)	84%	Dev.	
200732500	UPA Wenatchee Subbasin Complexity Proposal	Anadromous	Columbia Cascade	Chelan County Natural Resources Department	1.0	Channel realignment, LWD etc on private lands	BPA 100%		
200732600	Monitoring of juvenile and adult salmonid survival through the Federal Columbia River Power System	Anadromous	Mainstem/Sy stemwide	Washington Department of Fish and Wildlife (WDFW)	1.0	FPC (1 rating for all activities in program & mainstem amendment)	BPA 100%		
200733000	Gardena Farms Irrigation District Irrigation Efficiency and Instream Flow Project	Anadromous	Columbia Plateau	Gardena Farms Irrigation Distirct	1.0	Close piping of irrigation (assuming irrigators not required to do)	BPA 100%		
200733600	Effects of short-term flow fluctuations on salmon migration	Anadromous	Columbia Plateau	Oak Ridge National Laboratory	1.0	Research of flow fluctuations at Little Goose	BPA 100%		
200734500	Grande Ronde Coho Restoration	Anadromous	Blue Mountain	Nez Perce Tribe	1.0	Expand NEOH to address coho production in mitigation for FCRPS	BPA 100%		
200734600	Crims Island Habitat Restoration	Anadromous	Columbia Estuary	US Geological Survey (USGS) - Cook	1.0	Assess effectiveness of Corps/BPA tidal marsh restoration	BPA 100%		
200736400	Determining the effects of load following on reservoir hydraulics and migration behavior of juvenile salmonids.	Anadromous	Mainstem/Sy stemwide	Columbia River Research Laboratory	1.0	Load following effects, Little Goose	BPA 47%	Mixed	
200736500	Canyon Creek Culvert Replacements	Anadromous	Columbia Plateau	Malheur National Forest	1.0	Another entity authorized/required (FS roads), assume covered by BPA-FS MOU	BPA 70% (73)	Under Rev.	
200736900	Protect and Restore the North Fork Clearwater Subbasin	Resident	Mountain Snake	Nez Perce Tribe Dept. Fisheries Resource Management Watershed Division	1.0	Culvert removal, road improvements on FS and other lands; assume covered by BPA-FS MOU	BPA 70% (76)	Under Rev.	
200737200	Lake Roosevelt White Sturgeon Conservation	Resident	Intermountain	Spokane Tribe	1.0	White sturgeon hatchery planning, assume in mitigation	BPA 100%		

	Hatchery Project					for FCRPS			
200738100	Lower Columbia Fish Enhancement Group Community-Based Multi-Sub-Basin Habitat Restoration Program	Anadromous	Columbia Estuary	Lower Columbia Fish Enhancement Group	1.0	Hire 3 project managers to facilitate suite of habitat actions; assume that mostly private & that projects where landowner required to undertake activity will be excluded	BPA 9%	Mixed	
200738800	Fish Passage Data System (Key Functions Previously Performed by the Fish Passage Center)	Anadromous	Mainstem/Sy stemwide	Pacific States Marine Fisheries Commission (PSMFC)	1.0	FPC (assume all activities are included in program or mainstem amendment)	BPA 100%		
200701700	Lower Columbia Slough Off-Channel and Floodplain Habitat Restoration Project - Phase Two	Anadromous	Lower Columbia	Columbia Slough Watershed Council	2.1	Floodplain restoration on Portland-owned property, city and Corps authorized/required	BPA 20%	Mixed	
200704300	Lower Columbia Fish Enhancement Group Community-Based Multi-Sub-Basin Habitat Restoration Program	Anadromous	Lower Columbia	Lower Columbia Fish Enhancement Group	2.1	Multiple restoration activities; multiple other entities potentially authorized/required to conduct	BPA 9%	Mixed	
200706100	Deschutes Sub-basin Riparian Restoration through USDA Conservation Reserve Enhancement Program (CREP)	Anadromous	Columbia Plateau	Wyeast Resource Conservation & Development Area Council	2.1	Fund riparian planner to recruit/assist/plan with landowners for riparian protection under CREP program; NRCS authorized/required	BPA 7%	Mixed	
200708300	Grande Ronde Cooperative Salmonid Monitoring and Evaluation Project	Anadromous	Blue Mountain	Confederated Tribes of the Umatilla Indian Reservation	2.1	Population/status monitoring; fishery managers authorized/required	BPA 20%	Mixed	
200710200	Subbasin Scale Monitoring and Plan Implementation Monitoring for the Yakima Subbasin Plan	Anadromous	Columbia Plateau	Yakima Subbasin Fish and Wildlife Planning Board	2.1	Subbasin plan implementation, assume similar to other coordination	BPA 62%	Confirmed	
200710600	Spokane Tribe Fish and Wildlife Planning and Coordination	All	Mainstem/Sy stemwide	Spokane Tribe	2.1	Coordination/travel costs for wildlife managers (wildlife managers authorized/required)	BPA 100%		
200710800	Regional Coordination for	All	Mainstem/Sy	Upper Columbia	2.1	Regional coordination for UCUT	BPA		

	Upper Columbia United Tribes		stemwide	United Tribes		(UCUT entities authorized/required)	100%		
200716200	Kalispel Tribe Fish and Wildlife Coordination	All	Mainstem/Sy stemwide	Kalispel Tribe	2.1	Coordination/travel costs for wildlife managers	BPA 100%		
200720000	Idaho Subbasin Planning and Comprehensive Wildlife Conservation Strategy (CWCS) Data Distribution System	All	Mainstem/Sy stemwide	Idaho Department of Fish & Game	2.1	Web-based data distribution for ID subbasin plan implementation; assume similar to other coordination proposals	BPA 46%	Confirmed	
200725800	Development of reliable ESU-specific estimates of escapement, harvest, and straying for adult anadromous salmonids migrating through the Federal Columbia River Power System.	Anadromous	Mainstem/Sy stemwide	University of Idaho	2.1	Assume mostly FCRPS related, though fishery managers authorized/required to some degree	BPA 27%	Mixed	
200735500	Determining the Accuracy of Adult Coho Salmon Population Estimates from a Random, Spatially Balanced design using Area-Under-the-Curve	Anadromous	Lower Columbia	Washington Department of Fish and Wildlife (WDFW)	2.1	Coho population research, other entities authorized/required (eg fishery managers)	BPA 12%	Confirmed	
200737000	Methods of Applying Salmon Timing Mechanisms to Wild and Hatchery Fish Management	Anadromous	Columbia Gorge	The B. Taylor Group LLC	2.1	Hatchery/wild fish interactions research, fishery managers authorized required, but many connections to FCRPS operations/spill etc	BPA 100%		
200702600	Historic Changes in Organic Nutrient Sources and Productivity Proxies in the Columbia River Estuary in Relation to Juvenile Salmon Habitat Restoration Priorities	Anadromous	Columbia Estuary	Pacific Northwest National Laboratory	2.2	Nutrient research, fishery managers, others authorized/required	BPA 65%	Confirmed	
200703100	Identifying prioritized action plans from subbasin strategies using a scenario-based decision support	Anadromous	Lower Columbia	Northwest Fisheries Science Center	2.2	Refinement of "decision support system" for aquatic habitat recovery; multiple entities authorized/required	BPA 55%	Mixed	

	system								
200704500	Beebe Property Upland, Riparian, and Wetland Enhancements	Anadromous	Columbia Cascade	Washington Department of Fish and Wildlife (WDFW)	2.2	Vegetation, channel restoration on WDFW owned property near WDFW Chelan Falls hatchery; WDFW authorized/required to address	BPA 59%	Confirmed	
200707000	Fish Passage Facility Final Design and Construction - Clear Lake Dam (NF Tieton R.).	Resident	Columbia Plateau	Washington Department of Fish and Wildlife (WDFW)	2.2	NonFCRPS dam blockage correction; USBR authorized/required	BPA 68%	Under Dev.	
200709700	Restoring connectivity to a floodplain wetland on Multnomah Channel	Anadromous	Lower Columbia	Ducks Unlimited, Inc.	2.2	Creek restoration, but includes fixes to Metro installed (2002) water control that block passage (Metro authorized/required)	BPA 54%	Confirmed	
200709900	Gold Creek (Lakeview District) Bull Trout Habitat and Migration Protection	Resident	Intermountain	Idaho Department of Environmental Quality	2.2	Mine restoration, mixed private & FS; assume MOU does not apply; DEQ, EPA authorized/required to address, along with FS	BPA 54%	Confirmed	
200710500	Protecting & Restoring the Wallowa River Watershed	Anadromous	Blue Mountain	Nez Perce Tribe	2.2	Multiple restoration activities; multiple other entities potentially authorized/required to conduct	BPA 50%	Mixed	
200710900	Aquatic Nuisance Species monitoring and outreach program for the Mountain Columbia province (Montana portion) of the Columbia River Basin	Resident	Mountain Columbia	Montana Department of Fish, Wildlife and Parks	2.2	Aquatic invasive monitoring, multiple entities authorized/required	BPA 70%	Confirmed	
200711300	Cowiche Restoration and Protection Project (Easement/Fee Simple Acquisition)	Anadromous	Columbia Plateau	Washington Department of Fish and Wildlife (WDFW)	2.2	Anadromous fish habitat acquisition	BPA 26%	Confirmed	
200711600	Lostine River Watershed Restoration	Anadromous	Blue Mountain	Nez Perce Tribe	2.2	Multiple restoration activities; multiple other entities potentially authorized/required to conduct	BPA 43%	Mixed	
200713700	Open Channels	Resident	Upper Snake	Friends of the Teton River	2.2	Multiple restoration activities; multiple other entities potentially	BPA 65%	Under Dev.	

						authorized/required			
200714700	Willamette Flow Management Project	Anadromous	Lower Columbia	Nature Conservancy	2.2	Flow management evaluation on Willamette; other hydro operators authorized/required	BPA 65%	Confirmed	
200715000	Expand Salmonid Monitoring in Grays River to Meet Monitoring Needs Identified in the Lower Columbia Salmon Recovery and Subbasin Plan and maintain an at risk Chum Salmon Pop. through Supplementation.	Anadromous	Columbia Estuary	Washington Department of Fish and Wildlife (WDFW)	2.2	Population status monitoring for recovery; fishery managers, others authorized/required	BPA 38%	Confirmed	
200717200	UPA Project - MVID West Canal Diversion and Headworks	Anadromous	Columbia Cascade	Methow Salmon Recovery Foundation	2.2	Irrigation infrastructure improvements to allow for canal use after required diversion reductions; irrigation district assumed to be authorized, if not required to conduct this work already	BPA 50%	Mixed	
200718800	Lower Willamette River Fish Passage and Floodplain Reconnection at Oaks Bottom Wildlife Refuge	Anadromous	Lower Columbia	City of Portland	2.2	Replace culvert in Oaks Bottom Wildlife Refuge; assume neither City nor Corps already required to do	BPA 52%	Mixed	
200719000	Icicle Creek Ecological Recovery and Fish Population Monitoring	Resident	Columbia Cascade	Washington Trout	2.2	Population monitoring of recently restored stream segment; fishery managers others authorized/required	BPA 69%	Mixed	
200721600	Pacific Northwest Aquatic Monitoring Partnership- Fish Population Monitoring (FPM)--RME Design and Protocols. Programmatic and Standardized Work Products for PNW and the Columbia Basin	Anadromous	Mainstem/Sy stemwide	Pacific Northwest Aquatic Monitoring Partnership (PNAMP)	2.2	Multiple entity monitoring program	BPA 43%	Mixed	

200722300	Genetic characteristics and movement patterns of bull trout populations between Chief Joseph and McNary Dams, within the Columbia Cascade and Columbia Plateau Provinces	Resident	Multiprovince	US Fish & Wildlife Service (USFWS)	2.2	Population/genetics studies; fishery managers, other hydro ops authorized/required	BPA 60%	Confirmed	
200724500	Protect and Restore the Joseph Creek Watershed	Anadromous	Blue Mountain	Nez Perce Tribe	2.2	Multiple restoration activities; multiple other entities potentially authorized/required to conduct	BPA 40%	Mixed	
200725100	UPA Project - Methow Valley Irrigation District East Diversion Dam Replacement	Anadromous	Columbia Cascade	Methow Valley Irrigation District	2.2	Replace existing infrastructure to meet fish passage standards; irrigation district authorized/required to do	BPA 41%	Mixed	
200725200	Multi-scale assessment of hyporheic flow, temperature and fish distribution in Columbia River Tributaries	Anadromous	Mainstem/Sy stemwide	Confederated Tribes of the Umatilla Indian Reservation	2.2	Floodplain/water temp study/interactions; multiple entities authorized/required (fishery managers, DEQs, other hydro operators, etc).	BPA 34%	Confirmed	
200725700	Protect and Restore the Imnaha Subbasin	Anadromous	Blue Mountain	Nez Perce Tribe	2.2	Multiple restoration activities; multiple other entities potentially authorized/required to conduct	BPA 48%	Mixed	
200726800	Idaho Watershed Habitat Restoration Project via Custer Soil and Water Conservation District	Anadromous	Mountain Snake	Custer County Soil & Water Conservation District (SWCD)	2.2	Multiple restoration activities; multiple other entities potentially authorized/required to conduct	BPA 64%	Mixed	
200727200	Conservation and Recovery of Endangered Species Act Listed Floodplain Fishes in the Willamette Basin, with Emphasis on Oregon Chub	Resident	Lower Columbia	US Fish & Wildlife Service (USFWS)	2.2	Multiple restoration activities for recovery of chub; multiple entities authorized/required (fishery managers, other entities impacting)	BPA 63%	Mixed	
200727400	A Proposal to Expand Current Juvenile Salmonid Monitoring in the Lower Columbia Province to Meet the Monitoring Needs Identified in the Lower Columbia Salmon Recovery and Subbasin	Anadromous	Lower Columbia	Washington Department of Fish and Wildlife (WDFW)	2.2	Monitoring for recovery plan implementation; multiple entities authorized/required	BPA 31%	Confirmed	

	Plan.								
200728100	Washington Salmonid Abundance and Productivity Monitoring Framework	Anadromous	Mainstem/Sy stemwide	Washington Department of Fish and Wildlife (WDFW)	2.2	Recovery monitoring; fishery managers authorized/required	BPA 52%	Mixed	
200729300	Umatilla River Basin Stream Temperature Monitoring	Anadromous	Columbia Plateau	Confederated Tribes of the Umatilla Indian Reservation	2.2	Stream temp monitoring relating to recovery/salmonids; fishery managers, land managers, DEQ, others authorized/required	BPA 64%	Mixed	
200733300	Timing and survival of PIT tagged juvenile fall Chinook from the Hanford Reach.	Anadromous	Columbia Plateau	CRITFC	2.2	PIT tagging Hanford Reach fall chinook; multiple other entities authorized/required	BPA 56%	Confirmed	
200734000	A multidisciplinary collaborative approach to aquatic habitat monitoring & evaluation in the Walla Walla Subbasin	Anadromous	Columbia Plateau	Walla Walla Basin Watershed Council	2.2	Aquatic monitoring, multiple entities authorized/required	BPA 33%	Mixed	
200734300	A Proposal to Expand Current Juvenile Salmonid Monitoring in the Columbia Estuary Province to Meet the Monitoring Needs Identified in the Lower Columbia Salmon Recovery and Subbasin Plan.	Anadromous	Columbia Estuary	Washington Department of Fish and Wildlife (WDFW)	2.2	Juvenile monitoring, estuary, recovery focused; other entities authorized/required (fishery managers, other entities impacting listed species)	BPA 34%	Confirmed	
200736200	Assessing Fish Passage Through the Icicle Creek Boulder Field Above Leavenworth National Fish Hatchery	Anadromous	Columbia Cascade	Washington Trout	2.2	Tributary passage assessment; fishery managers authorized/required	BPA 67%	Under Dev.	
200736800	Adult Coho Salmon Monitoring Proposal for the Lower Columbia Province.	Anadromous	Lower Columbia	Washington Department of Fish and Wildlife (WDFW)	2.2	Population status monitoring, fishery managers authorized/required	BPA 54%	Confirmed	

200700700	Determine Status and Limiting Factors of Pacific Lamprey in Fifteenmile Subbasin, Oregon	Anadromous	Columbia Gorge	Confederated Tribes of Warm Springs Reservation of Oregon	2.3	Lamprey research, fishery managers, other hydro ops authorized/required	BPA 84%	Mixed	
200700900	A Spatially Explicit & Web-accessible Database for Managing the Impacts of Expanding Colonial Waterbird Populations on Juvenile Salmonids (<i>Oncorhynchus</i> spp.) in the Columbia River Basin	Anadromous	Mainstem/Sy stemwide	Northwest Fisheries Science Center	2.3	Avian predation database; fishery managers, others authorized/required	BPA 79%	Confirmed	
200701400	Stock specific run timing and upstream migration mortality of adult Chinook and sockeye salmon and steelhead through PIT tagging and genetic analyses at Bonneville Dam.	Anadromous	Mainstem/Sy stemwide	Columbia River Inter-Tribal Fish Commission (CRITFC)	2.3	Stock specific run timing; fishery managers authorized/required	BPA 82%	Confirmed	
200701800	Stock Assessment for salmon, steelhead, and other fish species in Lower Crab Creek, Wshington	Anadromous	Columbia Plateau	Washington Department of Fish and Wildlife (WDFW)	2.3	Population research, fishery managers required/authorized	BPA 96%	Mixed	
200702800	Pend Oreille River Basin Watershed Protection and Enhancement Project	Resident	Intermountain	Kalispel Tribe	2.3	Multiple restoration activities; multiple other entities potentially authorized/required to conduct	BPA 73%	Mixed	
200703400	Columbia Cascade Pump Screen Correction	Anadromous	Columbia Cascade	Washington Department of Fish and Wildlife (WDFW)	2.3	Correcting irrigation screens; irrigators authorized/required to do (assuming impacting listed fish)	BPA 96%	Mixed	
200703800	Preserving/Enhancing Bull Trout and Westslope Cutthroat Trout within the Upper Pend Oreille Basin.	Resident	Intermountain	Idaho Department of Fish & Game	2.3	Population analysis, limiting factors; fishery managers, Avista authorized/required	BPA 78%	Under Rev.	
200704600	Steelhead Spawning Ground Surveys, Flow, and Temperature Monitoring of Small Tributaries of the	Anadromous	Columbia Cascade	Washington Department of Fish and Wildlife (WDFW)	2.3	Population/status monitoring; fishery managers authorized/required	BPA 87%	Confirmed	

	Upper Middle Mainstem Columbia River.								
200704900	Efficacy of carcass analogs for restoring the productivity of nutrient limited salmonid streams	Anadromous	Columbia Gorge	Columbia River Research Laboratory	2.3	Evaluation carcass analogs(hatchery) for nutrient deposition; fishery managers, others authorized/required	BPA 97%	Confirmed	
200705100	Assessment of Interactions between Hatchery and Wild Summer Steelhead in the John Day River Subbasin	Anadromous	Columbia Plateau	Confederated Tribes of Warm Springs Reservation of Oregon	2.3	Hatchery interactions with wild fish; fishery managers authorized/required	BPA 77%	Mixed	
200705500	Entiat River - UPA - Lower Entiat River Off-Channel Restoration Project	Anadromous	Columbia Cascade	Chelan County Conservation District (SWCD)	2.3	Multiple irrigation passage fixes, assume irrigators authorized/required	BPA 96%	Confirmed	
200706300	Use of drift nets to monitor production and limiting factors in recruitment of larval Pacific lamprey	Anadromous	Mainstem/Sy stemwide	Oregon State University	2.3	Evaluating larval lamprey via drift nets (McKenzie River); fishery managers, others impacting lamprey authorized/required	BPA 89%	Confirmed	
200707900	Salmon & Steelhead Habitat Restoration and Protection in the Yakima Basin	Anadromous	Columbia Plateau	Mid-Columbia Fisheries Enhancement Group	2.3	Multiple restoration activities, multiple other entities may be authorized/required (or cert. that no projects for entities required?)	BPA 88%	Confirmed	
200709100	The evaluation of limiting factors on resident and anadromous salmonids in Lake Wenatchee, Washington	Anadromous	Columbia Cascade	Washington Department of Fish and Wildlife (WDFW)	2.3	Assessing limiting factors for recovery, recreational fishery; fishery managers authorized/required	BPA 78%	Confirmed	
200709600	Wildlife Inventory and Habitat Evaluation of Duck Valley Indian Reservation	Wildlife	Middle Snake	Shoshone Paiute Tribes	2.3	Duck Valley Indian Res wildlife inventory, not wildlife mitigation lands; other entity required (tribe, BIA)	BPA 70%	Under Dev.	
200710700	What was old is new again: evaluate the pound net and beach seine as innovative live capture selective harvest gears	Anadromous	Mainstem/Sy stemwide	Washington Department of Fish and Wildlife (WDFW)	2.3	Harvest practices; fishery managers authorized/required	BPA 88%	Under Dev.	

200711000	Differences in Functional Genes Between Hatchery and Wild Chinook Salmon	Anadromous	Mainstem/Sy stemwide	University of Idaho - Aquaculture Research Institute	2.3	Genetic research for hatchery reform efforts; fishery managers authorized/required	BPA 88%	Confirmed	
200712200	White Salmon River watershed assessment above and below Condit Dam before anadromous fish reintroduction.	Anadromous	Columbia Gorge	Columbia River Research Laboratory	2.3	Post Condit dam removal reintroduction assessment; other entities authorized or required (fishery managers; Condit dam owners)	BPA 79%	Mixed	
200712600	Protect and Restore the Lower Snake Tributary and Pataha Streams/Watersheds - Nez Perce Tribe	Anadromous	Columbia Plateau	Nez Perce Tribe DFRM Watershed Division	2.3	Culvert/barrier inventory on mixed ownership lands; multiple entities may be authorized/required to address	BPA 95%	Confirmed	
200713100	Screening diversions for conservation of fish populations in the Columbia River Basin: entrainment losses, prioritization, and the efficacy of alternative technology designs	Anadromous	Mainstem/Sy stemwide	Columbia River Research Laboratory	2.3	Impacts of unscreened diversions study and design suggestions; others authorized/required (fishery managers/state water departments, irrigators)	BPA 92%	Confirmed	
200713300	Systemwide distribution of genetic variation within and among populations of the white sturgeon (<i>Acipenser transmontanus</i>)	Resident	Mainstem/Sy stemwide	University of California at Davis	2.3	White sturgeon genetic research; fishery agencies, other actors authorized/required	BPA 97%	Confirmed	
200713500	Lower Columbia Salmon Recovery Planning: Habitat Restoration Project List Development and Modeling	Anadromous	Lower Columbia	Washington Department of Fish and Wildlife (WDFW)	2.3	Recovery prioritization/planning; multiple entities authorized/require (fishery managers, other actors in recovery)	BPA 95%	Confirmed	
200713600	Beavers as stream restorationists? Determining Systemwide status and trends in beaver impoundments in tributary streams, and the relationships between beaver impoundment and salmonids.	Wildlife	Mainstem/Sy stemwide	University of Idaho	2.3	Beaver research, impacts on salmonid, stream restoration; fish/wildlife managers authorized/required	BPA 87%	Confirmed	

200714100	Bull Trout Effective Population Size in Isolated Populations	Resident	Blue Mountain	Columbia River Fisheries Program Office	2.3	Bull trout viability research; fishery managers authorized/required	BPA 88%	Confirmed	
200714600	Bull Trout Population Status Monitoring in the Snake River Basin of Southeast Washington	Resident	Columbia Plateau	Washington Department of Fish and Wildlife (WDFW)	2.3	Population status monitoring for bull trout; fishery managers authorized/required	BPA 89%	Mixed	
200714800	Monitoring and Models for Restoration and Adaptive Management of White Sturgeon in the Columbia River Basin	Resident	Mainstem/Sy stemwide	US Geological Survey (USGS) - Cook	2.3	White sturgeon monitoring, fishery managers, others authorized/required	BPA 79%	Under Dev.	
200714900	Pend Oreille Nonnative Fish Suppression Project	Resident	Intermountain	Kalispel Tribe	2.3	Non-native fish suppression, fishery managers authorized/required	BPA 99%	Confirmed	
200715100	Nutrient Enhancement Business Plan	Anadromous	Mainstem/Sy stemwide	Lower Columbia Fish Enhancement Group	2.3	Develop business plan to address use of hatchery carcasses as nutrient analog; fishery managers authorized/required	BPA 91%	Confirmed	
200715600	Rock Creek Fish and Habitat Assessment for the Prioritization of Restoration and Protection.	Anadromous	Columbia Plateau	Yakama Confederated Tribes	2.3	Population monitoring primarily; fishery managers authorized/required	BPA 82%	Confirmed	
200715700	Bull Trout Status and Abundance Monitoring in the Waters in and Bordering the Warm Springs Reservation, Oregon	Resident	Columbia Plateau	Confederated Tribes of Warm Springs Reservation of Oregon	2.3	Bull trout monitoring, lower Deschutes; other entities authorized required (fishery managers; Pelton Round Butte operators)	BPA 84%	Mixed	
200716000	Evaluation of spawning success in Pacific salmon using electromyogram telemetry	Anadromous	Mainstem/Sy stemwide	Pacific Northwest National Laboratory	2.3	Sockeye salmon spawning success study; fishery managers authorized/required	BPA 89%	Under Dev.	
200716600	Lower Columbia River Coastal Cutthroat Trout Population Response to Habitat Restoration	Anadromous	Columbia Estuary	Columbia River Fisheries Program Office	2.3	Coast cutthroat trout response to habitat restoration, via PIT tag study; multiple entities authorized/required (fishery managers requiring habitat restoration; & all entities doing	BPA 86%	Confirmed	

						restoration activity)			
200717000	South Fork Snake River Yellowstone cutthroat trout recruitment and survival improvement	Resident	Upper Snake	Idaho Department of Fish & Game	2.3	Screening of irrigation, and updating fish mgmnt weirs; other entities authorized/required (irrigators for screens, IDFG for weirs)	BPA 96%	Confirmed	
200717500	DNA typing to identify native inland <i>Oncorhynchus mykiss</i>	Resident	Mainstem/Sy stemwide	Washington State University	2.3	DNA research, fishery managers authorized/required	BPA 93%	Under Rev.	
200717700	Protecting wild steelhead populations by minimizing the behavioral differences between hatchery and wild populations.	Anadromous	Mainstem/Sy stemwide	Northwest Fisheries Science Center	2.3	Behavior research, wild vs hatchery steelhead; fishery managers authorized/required	BPA 79%	Confirmed	
200721300	Assessing Recruitment Failure Across White Sturgeon Populations: Differences in Prey Availability and Physical Habitat Among Areas with Consistent, Inconsistent, and no Annual Recruitment to Age-1	Resident	Mainstem/Sy stemwide	US Geological Survey (USGS) - Cook	2.3	Investigate causes of sturgeon recruitment failure; multiple entities authorized/required (fishery managers, other Hs impacting sturgeon)	BPA 77%	Confirmed	
200722400	Implementation of the Okanogan Subbasin Plan. Initiate a Programmatic and Sequenced set of Key Habitat Restoration and Protection Actions	Anadromous	Columbia Cascade	Colville Confederated Tribes	2.3	Multiple restoration activities, multiple other entities may be authorized/required	BPA 90%	Mixed	
200723100	UPA Entiat Subbasin Riparian Enhancement Program	Anadromous	Columbia Cascade	Chelan County Conservation District (SWCD)	2.3	Fencing, livestock management to protect listed species, mixed landownership; other entities authorized/required (FS, pvt, to avoid ESA impacts)	BPA 92%	Confirmed	
200724900	Evaluation of Live Capture, Selective Fishing Gear	Anadromous	Mainstem/Sy stemwide	Colville Confederated Tribes	2.3	Testing selective fishing gear, fishery managers authorized/required	BPA 98%	Confirmed	

200725600	Physical and Biological Testing of a Flow Velocity Enhancement System	Anadromous	Mainstem/Sy stemwide	Natural Solutions	2.3	Flow velocity/enhancement equipment testing; Cowlitz river; other hydro operators authorized/required	BPA 79%	Confirmed	
200726100	Habitat effectiveness survey of existing, historical, and potential beaver habitat in the Upper Columbia Basin, Methow Subbasin	Wildlife	Columbia Cascade	Pacific Biodiversity Institute	2.3	Analysis of beaver, WA watershed, to address relocation needs; other entities authorized/required (WDFW, Forest Service)	BPA 80%	Under Dev.	
200727500	Impact of American shad in the Columbia River	Anadromous	Mainstem/Sy stemwide	Columbia River Research Laboratory	2.3	Basic research on shad; fishery managers authorized/required	BPA 87%	Confirmed	
200727600	Idaho Department of Fish and Game Rearing Expansion for Snake River Sockeye Salmon	Anadromous	Mountain Snake	Idaho Department of Fish & Game	2.3	Expand sockeye facilities to address limits at both LSRCP and Mitchell Act facilities; need clarity on connection with Mitchell Act hatchery (NMFS authorized/required to address)	BPA 98%	Mixed	
200727900	Assess Stream Habitat for Salmonid Recovery in the Lower Clearwater Subbasin	Anadromous	Mountain Snake	Nez Perce Soil & Water Conservation District (SWCD)	2.3	Stream habitat inventory, Lower Clearwater (mixed ownership, tribal, federal, private); multiple agencies authorized/required to inventory streams	BPA 79%	Mixed	
200728200	Okanagan River Restoration Initiative: Phases IV & V	Anadromous	Columbia Cascade	Okanagan Nation Alliance	2.3	Dike setbacks, other river restoration activities on land in Canada (BC agencies authorized/required; also see MidC PUD HCP?)	BPA 81%	Under Dev.	
200728500	Subyearling chinook salmon use of the Lower Willamette River.	Anadromous	Lower Columbia	City of Portland	2.3	Population research, needed by Portland for ESA compliance	BPA 94%	Confirmed	
200729100	Developing and Assessing Freshwater Mussel Distribution, Abundance and Life History Survey Methods in the Columbia Basin in Washington.	Resident	Columbia Cascade	Washington Department of Fish and Wildlife (WDFW)	2.3	Basic freshwater mussel study, WA, other entities authorized/required (WDFW, entities that impact mussels)	BPA 75%		
200734700	IDL Ponderosa Area Fish Passage	Resident	Mountain Snake	Idaho Department of Lands	2.3	Fish barrier removal on non-federal lands, other entities	BPA 88%	Confirmed	

						authorized/required (state, landowners etc)			
200734900	Monitoring resident salmonid populations and the aquatic food web in the upper Icicle Creek subbasin of the Wenatchee River basin.	Resident	Columbia Cascade	Washington Trout	2.3	Tributary salmonid monitoring, fishery managers authorized/required	BPA 71%	Mixed	
200735200	Feasibility Study and Implementation of a System-wide Conservation Enforcement Web-Based Data Center	Anadromous	Mainstem/Sy stemwide	Steven Vigg & Company	2.3	Conservation law enforcement database, other entities authorized/required (i.e. law enforcement agencies, fish/wildlife regulatory agencies)	BPA 78%	Under Dev.	
200735800	Estimating the detection efficiency of snorkeling for detecting anadromous salmonid parr	Anadromous	Mainstem/Sy stemwide	US Forest Service (USFS) - Rocky Mt Research Station	2.3	Effectiveness of snorkel surveys, other entities authorized/required (eg fishery managers, other entities that rely on snorkel survey data)	BPA 88%	Confirmed	
200735900	Application and enhancement of monitoring protocols for assessing productivity and watershed condition in headwater subcatchments of the John Day subbasin	Anadromous	Columbia Plateau	PNW Research Station -- Wenatchee	2.3	Watershed monitoring, multiple entities authorized/required (FS, landowners, state DEQ etc)	BPA 75%	Under Rev.	
200736000	Columbia River/Cowlitz River Eulachon Research and Monitoring Plan (ERMP)	Anadromous	Columbia Estuary	Steward and Associates	2.3	Smelt population analysis, fishery managers authorized/required	BPA 94%	Under Rev.	
200736100	IDL St. Joe Area Fish Passage	Resident	Mountain Snake	Idaho Department of Lands	2.3	Fish barrier removal on private lands, other entities authorized/required (landowners)	BPA 85%	Confirmed	
200702200	Characterizing stress responses in lampreys: assessments based on cDNA microarrays	Resident	Mainstem/Sy stemwide	Columbia River Research Laboratory	3.0	Lamprey stress response research, fishery managers, other hydro operators authorized/required	BPA 100%		
200702300	Integrated Fruit Production in Fifteenmile and Hood	Anadromous	Columbia Gorge	Wyeast Resource Conservation &	3.0	Pesticide impacts, other entities authorized/required (eg EPA,	BPA 100%		

	River Subbasin Orchards			Development Area Council		NMFS; state DEQs, agricultural users, etc)			
200703000	Determination of steelhead smolt production and smoltification genes in the Yakima River	Anadromous	Columbia Plateau	Columbia River Inter-Tribal Fish Commission (CRITFC)	3.0	Yakima River smolt research, other entities authorized/required (eg fishery managers)	BPA 100%		
200703200	Potential effects of the invasive New Zealand mudsnail in tributaries of Bonneville Reservoir and the Deschutes River, (Potamopyrgus antipodarum).	Anadromous	Columbia Gorge	US Geological Survey (USGS) - Cook	3.0	Invasive species effects, multiple entities authorized/required	BPA 100%		
200703600	Mid-Columbia Trophic Dynamics Project	Anadromous	Columbia Cascade	Washington Department of Fish and Wildlife (WDFW)	3.0	Other entities required (eg non-fed midC project operators)	BPA 100%		
200703700	North Fork Toutle River Fish Passage	Anadromous	Lower Columbia	Steward and Associates	3.0	Mitigation for non-FCRPS COE sediment control structure, Corps authorized/required	BPA 100%		
200704700	Hydrography Spatial Data Enhancement Project - WDFW & WDNR Operational Data Updates and Integration to the PNW Hydrography Clearinghouse for the WA Columbia Basin	Anadromous	Mainstem/Sy stemwide	Interagency Committee (IAC)	3.0	Database improvements for WA policy/technical integration, WA state required	BPA 100%		
200704800	Transboundary Watershed Coordination in the Kootenai River Basin	Resident	Mountain Columbia	Kootenai River Network, Inc.	3.0	Expansion of coordinating office, multiple entities authorized/required (other entities in the network)	BPA 100%		
200705600	IDL Pend Oreille Area Fish Passage #2	Resident	Intermountain	Idaho Department of Lands	3.0	Culvert replacements, county roads (IDLrequired)	BPA 95%	Confirmed	
200705700	Potlatch River Basin Conservation Easement	Anadromous	Mountain Snake	Potlatch Corporation	3.0	Conservation easement acquisition for anadromous fish, mitigating for industrial timber company; timber company authorized/required (note too, no	BPA 100%		

						crediting for capital anadromous fish habitat acquisitions)			
200705900	Abiotic and Biotic Factors Affecting the Success of Reintroductions of Anadromous Salmonids in Cle Elum Lake, Washington	Anadromous	Columbia Plateau	Washington Department of Fish and Wildlife (WDFW)	3.0	Research for re-introduction due to irrigation dam blockage (Cle Elum Lake), other entity required to address (Reclamation; fishery managers)	BPA 100%		
200706000	Lake Pend Oreille Invasive Fish	Resident	Intermountain	Idaho Department of Fish & Game	3.0	Invasive fish evaluation/management, Idaho DFG authorized/required	BPA 100%		
200706900	Determine status of migratory bull trout in the South Fork Payette River.	Resident	Middle Snake	Idaho Department of Fish & Game	3.0	Basic pop research, fishery managers authorized/required	BPA 100%		
200707200	Flathead Subbasin Flowering Rush and Yellowflag Iris Project	Resident	Mountain Columbia	Salish Kootenai College/University of Montana	3.0	Invasive weed management, landowners required to address	BPA 100%		
200707800	Characterizing the Geographic Distribution of Freshwater Mussels in the Columbia Basin Using Museum Collection Data.	Resident	Mainstem/Sy stemwide	Washington Department of Fish and Wildlife (WDFW)	3.0	Freshwater mussel pop analysis, another entity authorized/required (fishery managers)	BPA 100%		
200708100	WRIA-Based Restoration Project Feasibility Assessment and Prioritization, Coweeman River	Anadromous	Lower Columbia	Lower Columbia Fish Enhancement Group	3.0	Identifying appropriate offsite habitat improvements, multiple entities may be authorized/required'	BPA 100%		
200708900	Monitoring Invasive Species in the mainstem Columbia River: the development of a design to monitor the status and trends and provide for the early detection of invasive species	Anadromous	Mainstem/Sy stemwide	US Geological Survey (USGS) - Cook	3.0	Invasive aquatics species research, multiple entities authorized/required (fish managers, water quality managers; all river users)	BPA 100%		
200709000	Effects of the marine environment on the growth and survival of Columbia Basin spring Chinook and	Anadromous	Mainstem/Sy stemwide	Columbia River Inter-Tribal Fish Commission (CRITFC)	3.0	Ocean research re chinook; multiple entities authorized/required (eg fishery managers)	BPA 100%		

	sockeye salmon stocks.								
200711400	Vulcan Mountain Weed Control for Mule Deer and Bighorn Sheep Habitat Improvement	Wildlife	Intermountain	Washington Department of Fish and Wildlife (WDFW)	3.0	Weed control, wildlife managers/others required to address	BPA 100%		
200712000	Malheur Subbasin Habitat Restoration and Fish Enhancement – Logan Valley Project	Resident	Middle Snake	Burns Paiute Tribe	3.0	Logan Valley/Stanbro Ranch acquisition, mitigation for nonFCRPS dam (Warm Springs), other entities authorized/required (Reclamation)	BPA 100%		
200715400	Douglas County Multi Species Habitat Conservation Plan, Previously referred to as the Foster Creek Habitat Conservation Plan (FCHCP)	Wildlife	Columbia Cascade	Foster Creek Conservation District	3.0	County HCP implementation (agriculture, timber); other entities authorized/required to implement	BPA 100%		
200716400	Determination of Steelhead Production and Productivity Response to Habitat Manipulations in the Upper Potlatch River, Idaho	Anadromous	Mountain Snake	Idaho Department of Fish & Game	3.0	Report on steelhead production in Potlatch River, other entities (fishery managers) authorized/required	BPA 100%		
200716500	Relative abundance, distribution, and population structure of lampreys in the Columbia River Basin	Anadromous	Mainstem/Sy stemwide	Columbia River Research Laboratory	3.0	Lamprey population analysis, fishery managers authorized/required	BPA 100%		
200716800	Using otolith microstructure and microchemistry to delineate growth patterns and spatial structure of Snake River Fall Chinook salmon	Anadromous	Mainstem/Sy stemwide	National Oceanic & Atmospheric Administration (NOAA)	3.0	Snake River Fall Chinook basic biology research; other entities authorized/required (eg fishery managers)	BPA 100%		
200717100	Malheur River Subbasin Habitat Restoration and Fish Enhancement–	Resident	Middle Snake	Burns Paiute Tribe	3.0	Habitat to address fish/wildlife losses, but not related to FCRPS dam (Warm Springs dam),	BPA 100%		

	Stinkingwater Project					grazing; another entity authorized/required to address (eg non FCRPS, livestock owners, range managers)			
200717600	A Freshwater Mussel Watch for Biomonitoring in the Columbia River Basin	Resident	Mainstem/Sy stemwide	Confederated Tribes of the Umatilla Indian Reservation	3.0	Research re: mussels as indicator species, other entities authorized/required (eg fish/wildlife agencies, other hydro owners etc)	BPA 100%		
200718700	Use of Mainstem Habitats by Juvenile Pacific Lamprey (<i>Lampetra tridentata</i>)	Anadromous	Mainstem/Sy stemwide	Pacific Northwest National Laboratory	3.0	Lamprey research, mainstem, other entities authorized/required (eg other hydro)	BPA 100%		
200719700	Evaluating the sublethal impacts of current use pesticides on the environmental health of salmonids in the Columbia River Basin.	Anadromous	Mainstem/Sy stemwide	Northwest Fisheries Science Center	3.0	Pesticide impacts, other entities authorized/required (eg EPA, NMFS; state DEQs, agricultural users, etc)	BPA 100%		
200719800	Next Steps in Subbasin Planning: Umatilla Pilot Project	Anadromous	Columbia Plateau	Confederated Tribes of the Umatilla Indian Reservation	3.0	Subbasin plan implementation, multiple entities authorized/required	BPA 100%		
200721000	Mores Creek Watershed Floodplain and Habitat Restoration: Design and Implementation	Resident	Middle Snake	West Central Highlands Resource Conservation and Development Council	3.0	Mitigating non FCRPS dam (?); also mining impacts; other entities authorized/required (eg, Reclamation, FS)	BPA 100%		
200721500	Adult Steelhead Monitoring in Trout Creek	Anadromous	Columbia Gorge	Washington Department of Fish and Wildlife (WDFW)	3.0	Population monitoring, other entities authorized/required (eg WDFW)	BPA 100%		
200721800	Development of single nucleotide polymorphism (SNPs) genetic markers diagnostic between coastal rainbow trout and interior redband trout	Resident	Mountain Columbia	Idaho Department of Fish & Game	3.0	Fish diagnostics/biology research, other entities authorized/required (fishery managers)	BPA 100%		
200722100	Native Trout Restoration in the Methow, Entiat, and	Resident	Columbia Cascade	Washington Department of Fish	3.0	Trout restoration via investigation & invasives	BPA 100%		

	Wenatchee Subbasins			and Wildlife (WDFW)		management; WDFW authorized/required			
200722700	Rapid DNA Profiling of Hatchery and Wild Salmon Stocks with Single Nucleotide Polymorphism (SNP) Profiling	Anadromous	Mainstem/Sy stemwide	Pacific Northwest National Laboratory	3.0	DNA profiling, fishery managers authorized/required	BPA 100%		
200723000	Selective Gear Demonstration Project: Reef Net Fishing Gear for Lower Columbia River Commercial Salmon Fishery	Anadromous	Mainstem/Sy stemwide	Washington Sea Grant Program	3.0	Reefnet fishing gear testing (fishery managers authorized/required)	BPA 100%		
200723300	Distribution and Abundance Monitoring of <i>Oncorhynchus mykiss</i> within the Lower Clearwater Subbasin	Anadromous	Mountain Snake	Nez Perce Tribe Dept. Fisheries Resource Management Watershed Division	3.0	Population analysis for listed species, multiple entities authorized/required (fisheries managers, NMFS, entities with impacts to listed species)	BPA 100%		
200723400	Assessing Habitat and Environmental Suitability for Northern Leopard Frogs in the Crab Creek and Pend O'reille Sub-basins of Eastern Washington	Wildlife	Columbia Plateau	Washington Department of Fish and Wildlife (WDFW)	3.0	RME re: declining leopard frogs in WA; multiple entities authorized/required (WDFW, other sources of habitat decline)	BPA 100%		
200723800	Providing Services to Assist Record Keeping of Over the Bank Sales in Zone 6 Tribal Fisheries	Anadromous	Multiprovinc e	Steven Vigg & Company	3.0	Record keeping for harvest sales; other entities authorized/required (harvest managers)	BPA 100%		
200724100	Well modifications to improve aquatic habitat for Toppenish/Simcoe Creeks.	Anadromous	Columbia Plateau	Yakama Confederated Tribes	3.0	Well modifications to help groundwater; other entities authorized/required (well owners, state etc) [could check not required to do so]	BPA 100%		
200725000	Genetic Evaluation of Chinook Salmon Supplementation in Idaho Rivers	Anadromous	Mountain Snake	Idaho Department of Fish and Game / Nez Perce Tribe	3.0	Hatchery supplementation analysis in ID; other entities authorized/required (eg fishery managers, hatchery managers)	BPA 100%		

200725300	Monitoring of Adult Abundance and Spatial Distribution for Snake River Spring/Summer Chinook Salmon ESU Populations	Anadromous	Mainstem/Sy stemwide	Nez Perce Tribe / Idaho Department of Fish and Game	3.0	Monitoring adult chinook/ESA abundance; other entities authorized/required (fisheries managers, NMFS, others affecting chinook).	BPA 100%		
200725400	StreamNet Support and Services for Conservation and Recovery Data Needs	Anadromous	Mainstem/Sy stemwide	Pacific States Marine Fisheries Commission (PSMFC)	3.0	Fish population inventory coordination with another BPA project; other entities authorized/required (eg fishery managers)	BPA 100%		
200726200	Enhanced Landscape Classification to Improve Assessment of Conservation Restoration and Mitigation Projects	Anadromous	Mainstem/Sy stemwide	Pacific Northwest National Laboratory	3.0	General effectiveness evaluation (especially habitat); multiple entities authorized/required	BPA 100%		
200726700	Probabilistic Monitoring of the Status and Trends of Habitat, Water Quality, and Fish Presence in the Washington Portion of the Columbia River Basin	Anadromous	Mainstem/Sy stemwide	Interagency Committee (IAC)	3.0	Offsite habitat monitoring, using EMAP; multiple other entities authorized/required (WA state, individual landowners etc)	BPA 100%		
200727300	Evaluate the effects of hyporheic exchange on egg pocket water temperature in Snake River fall Chinook salmon spawning areas	Anadromous	Blue Mountain	Pacific Northwest National Laboratory	3.0	Evaluate benefits of changing discharge operations at Hells Canyon; Idaho Power required	BPA 100%		
200729400	Control of BKD by Inactivation of the Renibacterium salmoninarum Sortase Enzyme as an Alternative to Antibiotics	Anadromous	Mainstem/Sy stemwide	Northwest Fisheries Science Center	3.0	Hatchery disease research, other entities (eg hatchery/fishery managers) authorized/required	BPA 100%		
200729600	IDL Clearwater Area Fish Passage	Anadromous	Mountain Snake	Idaho Department of Lands	3.0	Culvert replacement towards meeting state SRBA requirements	BPA 93%	Confirmed	
200729700	Effect of Elevated Water Temperature and Gas Supersaturation on Bull	Resident	Mainstem/Sy stemwide	Abernathy Fish Tech. Center	3.0	Temperature effects on bull trout, other entities authorized/required (eg fishery	BPA 100%		

	Trout Reproduction and Growth.					managers, temperature contributors)			
200729900	Investigation of the Relative Reproductive Success of Stray Hatchery and Wild Steelhead and the Influence of Hatchery Strays on Natural Productivity in the Deschutes River Subbasin	Anadromous	Columbia Plateau	Oregon Department of Fish & Wildlife (ODFW)	3.0	Hatchery/stray research in Deschutes; other entities authorized/required (eg ODFW, Pelton-Round Butte)	BPA 100%		
200731300	Expanded Acquisition and Display of Fish (Initially Anadromous Salmonids) Harvest Data in the StreamNet Database	Anadromous	Mainstem/Sy stemwide	Pacific States Marine Fisheries Commission (PSMFC)	3.0	Harvest data for StreamNet, other entities authorized/required (eg fishery managers)	BPA 100%		
200731400	Regional Consolidation of Habitat Restoration Project Information From Multiple Funding Sources with Dissemination Through the StreamNet Website	All	Mainstem/Sy stemwide	Pacific States Marine Fisheries Commission (PSMFC)	3.0	Coordination of habitat restoration data into StreamNet; multiple other entities authorized/required (e.g, other restoration funders)	BPA 100%		
200731500	Camas Slough/Lower Washougal River Realignment	Anadromous	Lower Columbia	Lower Columbia Fish Enhancement Group	3.0	Feasibility study for re-routing Lower Washougal, multiple entities authorized/required (highway, landowners etc)	BPA 100%		
200731900	WRIA-Based Restoration Project Feasibility Assessment and Prioritization, Kalama River	Anadromous	Lower Columbia	Lower Columbia Fish Enhancement Group	3.0	Identifying appropriate offsite habitat improvements, multiple entities may be authorized/required'	BPA 100%		
200732000	Inventory and Assess Fish Passage and Screening Needs in the Willow Creek Watershed	Anadromous	Columbia Plateau	Morrow County Soil & Water Conservation District (SWCD)	3.0	Inventory of passage barriers in watershed; other entities authorized/required (eg ODFW, landowners etc).	BPA 100%		
200732200	Ecosystem Economics Model for Willamette Basin Restoration and Conservation	Anadromous	Lower Columbia	David Evans and Associates, Inc.	3.0	Ecosystem economics modeling, multiple entities authorized/required	BPA 100%		

200732300	Investigate genetic parentage analysis techniques to estimate spawner abundance in ESA-listed steelhead populations	Anadromous	Mountain Snake	Idaho Department of Fish & Game	3.0	Genetic analysis regarding ESA-listed steelhead; fishery managers authorized/required	BPA 100%		
200732700	Compilation of Location-Specific Hatchery Release Data in Consistent Format Across Agencies by StreamNet	Anadromous	Mainstem/Sy stemwide	Pacific States Marine Fisheries Commission (PSMFC)	3.0	Hatchery release data coordination; fishery managers authorized/required	BPA 100%		
200733200	Mitigation of marine-derived nutrient loss in the Boise-Payette-Weiser subbasin.	Resident	Middle Snake	Idaho Department of Fish & Game	3.0	Marine derived nutrient loss research, other entities authorized/required (other hydro operators; fishery managers etc)	BPA 100%		
200733500	Migration and homing ecology of supplemented and wild spring Chinook salmon.	Anadromous	Columbia Plateau	Northwest Fisheries Science Center	3.0	Hatchery/supplementation research; fishery managers authorized/required; may be a "1" because this is a BPA-funded facility (Cle Elum)?	BPA 100%		
200733700	Oregon Plan Monitoring of Steelhead Status, Trend, and Habitat in the Grande Ronde River Subbasin.	Anadromous	Blue Mountain	Oregon Department of Fish & Wildlife (ODFW)	3.0	Steelhead status/trend monitoring, fishery managers authorized/required	BPA 100%		
200734200	IDL Maggie Cr. Area Fish Passage Proposal	Anadromous	Mountain Snake	Idaho Department of Lands	3.0	Culvert removal on IDL lands, IDL authorized/required (SRBA)	BPA 94%	Confirmed	
200734400	Lower Columbia River Wild Coho DNA Stock Identification Proposal	Anadromous	Lower Columbia	Fish Friendly Inc.	3.0	DNA research wild coho, fishery managers authorized/required	BPA 100%		
200735300	Quantitative and effective analysis of Columbia River Chinook salmon (<i>Oncorhynchus tshawytscha</i>) and steelhead (<i>O. mykiss</i>) population viability.	Anadromous	Mainstem/Sy stemwide	Columbia River Inter-Tribal Fish Commission (CRITFC)	3.0	Population viability analysis, fishery managers authorized/required	BPA 100%		
200736300	IDL Pend Oreille Area Fish Passage	Resident	Intermountain	Idaho Department of Lands	3.0	Culvert replacement, non-federal lands ID, others authorized/required (i.e, IDL)	BPA 87%	Confirmed	

200736700	Klickitat and Rock Creek Subbasin Habitat Improvement Program	Anadromous	Columbia Gorge	Klickitat County	3.0	Offsite habitat improvements/restoration, multiple activities, multiple entities with authority or requirement to fund	BPA 100%		
200737100	Documentation of food-web linkages in the mainstem Columbia River – towards understanding the role of invasive species and establishing a baseline trophic state	Resident	Columbia Gorge	Columbia River Research Laboratory	3.0	Impacts of aquatic invasive species; NOAA (eg National Sea Grant) and others authorized/required	BPA 100%		
200737300	IDL Priest Lake Fish Passage	Resident	Intermountain	Idaho Department of Lands	3.0	Culvert replacements, non-fed lands (IDL authorized/required via forest practices act, Snake River Basin Adjudication to address)	BPA 88%	Confirmed	
200737400	Investigating Juvenile Salmonid Mortality Associated with Lock Flushing	Anadromous	Mainstem/Sy stemwide	bluefish.org	3.0	Navigation impacts, Corps/shippers required/authorized	BPA 100%		
200737500	Does the Decline of Idaho's Sockeye Salmon Correlate with a Mountain Beetle Infestation?	Wildlife	Upper Snake	bluefish.org	3.0	Nutrients, focus on affecting timber resource (timber managers authorized/required)	BPA 100%		
200737700	Cooler Temperatures for Federally Controlled Reservoirs	Anadromous	Mainstem/Sy stemwide	bluefish.org	3.0	Temperature control structure at Brownlee (Idaho Power required)	BPA 100%		
200737800	Investigating Reservoir Sediment Concerns of a Restored Free-Flowing Lower Snake River	Anadromous	Mainstem/Sy stemwide	bluefish.org	3.0	Evaluation of sediment were 4 lower snake dams removed (Corps, Reclamation authorized/required)	BPA 100%		
200737900	Surveying Jobs that Depend on the Existence of Lower Snake River Reservoirs	Anadromous	Mainstem/Sy stemwide	bluefish.org	3.0	Economic impacts of breaching 4 lower snake dams (Corps/others authorized/required and already evaluated)	BPA 100%		
200738000	Keeping Irrigators Whole in the Event of Reservoir	Anadromous	Mainstem/Sy stemwide	bluefish.org	3.0	Impacts to irrigators of removal (irrigators, plus	BPA 100%		

BPA “IN LIEU” INTERPRETIVE KEY & RATINGS SYSTEM

The *in lieu* provision, section 4(h)(10)(A) of the Northwest Power Act states:

“Expenditures of the Administrator pursuant to this paragraph shall be in addition to, not in lieu of, other expenditures authorized or required from other entities under other agreements or provisions of law.”

Interpretation:

If another entity is authorized or required under other agreements or provisions of law to undertake an activity, BPA cannot fund the activity unless BPA’s funding is in addition to, not in lieu of that other entity’s funding.

In lieu concerns for BPA will typically arise in areas of overlapping authority—where BPA may be authorized (but not required) to undertake the activity and another entity is also either required or authorized to undertake the activity.

How to apply the provision:

1. Is another entity authorized or required under other agreements or provisions of law to undertake the activity?
2. If no, then no further *in lieu* review is needed.
3. If yes, then BPA’s funding must be in addition to, not in lieu of that entity’s funding.

What is another entity?

BPA interprets this to mean any entity other than BPA, including but not limited to federal, state or tribal governmental entities, corporations, individuals, etc.

What does “authorized or required under other agreements or provisions of law” mean?

Taking into account relevant provisions of the Northwest Power Act, including sections 4(h)(10)(A), as well as sections 4(h)(8)(C),⁴ 4(h)(8)(A),⁵ and 4(h)(8)(B)⁶ in particular,

⁴ “To the extent the program provides for coordination of its measures with additional measures (including additional enhancement measures to deal with impacts caused by factors other than the development and operation of electric power facilities and programs), such additional measures are to be implemented in accordance with agreements among appropriate parties providing for the administration and funding of such additional measures.”

⁵ “Enhancement measures may be used, in appropriate circumstances, as a means of achieving offsite protection and mitigation with respect to compensation for losses arising from the development and operation of the hydroelectric facilities of the Columbia River and its tributaries as a system.”

⁶ “Consumers of electric power shall bear the cost of measures designed to deal with adverse impacts caused by the development and operation of electric power facilities and programs only.”

BPA interprets “authorized” to mean that another entity has been given legal authority under other agreements or provisions of law to undertake the protection, mitigation, or enhancement activity proposed for BPA funding. The entity need not have appropriations or be currently funding the activity to be “authorized” to do so.

BPA interprets “required” to mean that another entity has been directed under other agreements or provisions of law to undertake the activity. BPA interprets this to be a directive to the entity to conduct the activity. The entity need not be currently funding the activity even though “directed” to do so.

BPA interprets “other agreements” to mean a contract, permit, license, settlement, memorandum of agreement or other written arrangement between entities other than BPA.

BPA interprets “provisions of law” to mean a statute, regulation, or regulatory or judicial order.

When is BPA’s funding in addition to, not in lieu of, another entity’s funding?

“In lieu” means “in place of” or “instead of.” BPA interprets this to mean that when another entity is authorized or required under other agreements or provisions of law to undertake an activity, BPA’s funds can also be used, but only if they add to funding by the entity.

A rule of reasonableness has to apply here, so BPA will seek to adhere to the following general principles:

- The central objective is to make sure Bonneville expenditures to benefit fish and wildlife are in addition to and not replacing or supplanting the expenditures others are authorized or required to make.
- In evaluating proposals, BPA may consider a variety of relevant factors, such as the following:
 - the relationship of the project to FCRPS impacts
 - whether the activity has historically been funded by another entity
 - the nature and extent of the other entity’s authority or obligation to take the action
 - the amount and kind of the cost-share
 - the likelihood of the project being implemented without BPA participation

- Where BPA and another entity have overlapping *authority* to do work proposed as BPA mitigation, “cost-sharing”—where BPA funding is a portion of the overall proposed budget for a proposal—can provide the proof needed to demonstrate that the *in lieu* prohibition does not apply.
- BPA is not requiring a set amount of cost-sharing, but the amount of cost-sharing provided must allow BPA to reasonably conclude that its funds are adding to and not effectively supplanting the funding authorized or required of another entity. For example, while cost-sharing of \$1 could technically mean BPA is not supplanting another entity’s funding, this is plainly an unreasonable result; what level is “reasonable” will be evaluated on a case-by-case basis.
- Cost-sharing is not likely to be appropriate when another entity is plainly *required* to conduct the activity. For example, when another entity has contracted or has been ordered to perform the activity, BPA should not fund what’s already covered. BPA’s funding should create additional, measurable value to the project over and above what the entity is responsible for.
- A cost-share agreement between BPA and the entity may address appropriate cost-sharing on a programmatic basis (e.g., the MOU between BPA and the Forest Service).

***In lieu* ratings for proposals**

BPA rated each proposal as follows:

- 1** No *in lieu* concerns identified
- 2** Potential *in lieu* funding issues: another entity is authorized or required to undertake the activity proposed for BPA funding, but BPA funding appears to be in addition to, not *in lieu* of the other entity’s funding, typically due to cost-sharing.

These “2” ratings were further delineated into ratings of “2.1,” “2.2” and “2.3” describing BPA’s perspective on the reasonableness of the cost-sharing, taking into account the relative proportion of cost-sharing, the nature and extent of the other entity’s authorization or requirement to conduct the work, and the other principles outlined above. The ratings are as follows: 2.1—Appears reasonable; 2.2—May be reasonable; 2.3—Appears unreasonable.

- 3** *In lieu* funding problems: another entity is authorized or required to undertake the activity, and BPA’s funding is *in lieu* of that entity’s funding, e.g., the other entity is authorized or required to undertake the

activity and there is no cost-share offered, or the other entity is clearly required to undertake the activity, and the cost-share offered is not sufficient (does not appear to add value rather than just supplanting).

Under BPA's ratings then, a "1" rating is an "okay to fund" rating at the discretion of BPA. A "2" rating is a "may be okay to fund" at the discretion of BPA (with approximate leanings on use of that discretion indicated). A "3" rating is a "not okay to fund, in lieu concerns."

Remedies for *in lieu* concerns

The following are examples of things that can address *in lieu* concerns identified:

4. Written confirmation by the proponent that neither it nor any other entity is authorized or required by other agreements or provisions of law to undertake the activity for which BPA funding is being sought.
5. Further description of how BPA's funding is in addition to, not *in lieu* of the other entity's funding, taking into account the principles described above. For example, a project sponsor could provide additional information showing that it is applying its funds to accomplish other aspects of the same overall project but had not included that explanation in the original proposal.
 - For example, assume a proposal seeking 100 percent BPA funding for replacement of three culverts that another entity is already required to replace was rated a "3." The sponsor could provide information that the proposal to the Council was part of a larger project that would remove six culverts, and the other three were being funded in the same time period by the entity; this would be a potentially reasonable cost-share and result in the project getting a "2" rating.
6. Information about past funding activities by the entity, indicating that it has not funded the kind of activity proposed for BPA funding.