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February 8, 2005

## MEMORANDUM

**TO:** Council Members

**FROM:** Doug Marker, Director of Fish and Wildlife


**SUBJECT:** Agenda Item #11 - Action Agencies Proposed Action

At your meeting on February 16, 2005 Council and Bonneville staffs will review the anticipated implementation of the Updated Proposed Action (UPA) for the Biological Opinion for the Federal Columbia River Power System by the Action Agencies.

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# ACTION AGENCIES PROPOSED ACTION

2010 Theoretical Survival	<i>Reference Operation Survival</i>	
	<b>Action Agencies Proposed Actions</b>	<b>1. Hydro-system Actions to benefit all listed fish through hydro-system</b> <ul style="list-style-type: none"> <li>• Dam Improvements: <ul style="list-style-type: none"> <li>Ice Harbor RSW (2005)</li> <li>Lower Monumental RSW (2006) *</li> <li>Little Goose RSW (2007) *</li> <li>The Dalles Physical Guidance Device (2007)</li> <li>McNary RSW (2008) *</li> </ul> </li> <li>• Reduce juvenile transport in April</li> <li>• Continue fish spill operations</li> <li>• Manage water for fish purposes</li> </ul>
		<b>2. Predator Control Actions to benefit all listed fish through hydrosystem</b> <ul style="list-style-type: none"> <li>• Redistribute Caspian terns</li> <li>• Increase Northern Pikeminnow rewards</li> <li>• Investigate other actions</li> </ul>
		<b>3. Other Actions</b> <ul style="list-style-type: none"> <li>• Tributary actions targeted to Upper and Mid Columbia listed fish informed by sub-basin plans where feasible</li> <li>• Estuary improvements that target Snake River fall Chinook, but also benefit all listed fish in lower river</li> <li>• Safety net hatchery program targeted to Snake River Sockeye</li> </ul>
2004 Current Survival	<i>Hydro Proposed Actions</i> <i>Ongoing actions since 2000, including dam operations and structural improvements for juvenile and adult fish passage.</i>	



Planning dates, actual dates to be determined through collaboration with states and tribes in Regional Forum process

UPA Implementation	Project	Status of ISRP Review	BPA Cost Estimate for FY05 (bold italicized figures are NOT in current FY05 SOY budget)	BPA Cost Estimate for FY06
Caspian Tern Management in the Estuary	Research on East Sand Island	Within scope of previously approved project	\$100,000	\$100,000
	Implement Tern Management Plan	Project responds to Court-ordered EIS	<b><i>\$200,000</i></b>	\$300,000
	Monitor Status of Regional Tern Population	ISRP review to occur subsequent to Within-Year request	<b><i>\$50,000</i></b>	\$50,000
Double-crested Cormorant Research	Research on East Sand Island	Within scope of previously approved project	<b><i>\$50,000</i></b> \$75,000	\$150,000
Caspian Tern Research	Research on Crescent Island	Within scope of previously approved project	\$75,000	\$75,000
Northern Pikeminnow Management Program	Base Program plus some site-specific predator management, including non-native species	ISRP review of any new work to occur subsequent to Within-Year request	\$3,700,000	\$3,700,000
Research, Monitoring and Evaluation	Estuary RM&E Pilot Project	ISRP review to occur subsequent to Within-Year request	<b><i>\$200,000</i></b>	\$350,000
	Acoustic Tagging	Within scope of previously approved project	\$200,000	\$1,500,000
	Habitat project compliance monitoring	ISRP review to occur subsequent to Within-Year request	\$0	\$100,000
	Expand Tributary RM&E	ISRP review to occur subsequent to Within-Year request	<b><i>\$1,000,000</i></b>	\$2,000,000
	Data management pilot work	ISRP review to occur subsequent to Within-Year request	<b><i>\$500,000</i></b>	\$500,000
	PNAMP RM&E Coordination	Within scope of previously approved project	\$80,000	\$120,000
	Selective fishery research RFP	ISRP review to occur subsequent to Within-Year request	\$0	\$400,000
	Review ongoing supplementation research	ISRP review to occur subsequent to Within-Year request	\$0	\$150,000
Hatchery Actions	Upgrade LGR adult trap for fall chinook; long-term operation of the trap	ISRP will be provided design plans as available per agreement at January Council meeting.	<b><i>\$350,000 Capital</i></b>	\$2,000,000 Capital
			<b><i>\$112,000</i></b>	\$280,000
	Produce 150,000 Snake River sockeye salmon smolts	ISRP review to occur subsequent to Within-Year request	<b><i>\$250,000</i></b>	\$250,000

UPA Implementation	Project	Status of ISRP Review	BPA Cost Estimate for FY05 (bold italicized figures are NOT in current FY05 SOY budget)	BPA Cost Estimate for FY06
Estuary Habitat Actions	Sandy River Delta	Within scope of previously approved project	\$902,000	\$1,000,000
	Implement Habitat Restoration for the Estuary and Lower Columbia	Within scope of previously approved project	\$1,000,000	\$1,000,000
Columbia Cascade Habitat Actions	Entiat 4 Mile - Replace diversion with well(s).	ISRP requested to review for March Council meeting	<b><i>\$40,000</i></b>	N/A
	Whitehall - Replace 4 unscreened diversions with well(s).		<b><i>\$40,000</i></b>	N/A
	Hottell - Existing screen would be protected by new intake headgate.		<b><i>\$11,520</i></b>	N/A
	Marrachi piping and diversion in Beaver Creek - Irrigation diversion replaced with a rock v-weir and piped to increase instream flows		<b><i>\$105,000</i></b>	N/A
	Fulton Diversion - Present passage impediment will be replaced.		<b><i>\$146,000</i></b>	N/A
	Chewuch Diversion - Present passage impediment will be replaced with a roughened channel and dam repaired		<b><i>\$122,000</i></b>	N/A
	Methow Salmon Recovery Foundation Side Channel Enhancement - Twisp River side channel reconnected using headgate through existing rock levee		<b><i>\$65,000</i></b>	N/A
	MacPherson Side Channel Restoration - Chewuch River side channel reconnected using headgate through existing rock levee. Will enhance approximately 1,000 ft. of low gradient, meandering side channel habitat.		<b><i>\$106,000</i></b>	N/A