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## NORTHWEST POWER PLANNING COUNCIL

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October 5, 2001

Re: Pre-Meeting Information and Draft Agenda for Anadromous Fish Workgroup

Dear Artificial Production Advisory Committee Member:

As previously announced, the fourth Artificial Production Advisory Committee (APAC) meeting (Anadromous Fish Workgroup) will be held, Wednesday, October 10, 2001 starting at 9:00 AM and ending at 4:30 PM. The meeting will be located at the offices of the:

### **Northwest Power Planning Council**

851 S.W. Sixth Avenue, Suite 1100

Portland, Oregon 97204-1348

503-222-5161

Large conference room.

Conference Call in Number - 800-452-5170 - pass code 2792

The meeting and work sessions will focus on specifics of the facility, program evaluation and reviews of draft templates for a Phase I and Phase II review.

A draft meeting packet and revised draft agenda are enclosed for your review. Some sections of the draft meeting packet are not completed. This information will be handed out at the meeting.

Please contact either Dan Warren or Kendra Phillips at the NWPPC's main office with any questions.

We appreciate your continued support as a member of the APAC and look forward to seeing you on October 10, 2001.

Sincerely,

Bruce Suzumoto

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# **NWPPC Artificial Production Advisory Committee**

## **Anadromous Workgroup**

**Date: Wednesday October 10, 2001**

**9:00 AM to 4:30 PM**

### **Location: NWPPC**

**851 S.W. Sixth Avenue, Suite 1100  
Portland, Oregon 97204-1348**

## **Meeting Packet**

**NWPPC Artificial Production Advisory Committee  
 Anadromous Fish Workgroup  
 Date: October 10, 2001  
 Meeting Packet Contents**

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### **NWPPC Artificial Production Advisory Committee**

# Section 1.

# General Introduction

# **Artificial Production Advisory Committee (APAC)**

## **Committee Purpose**

To advise the Council on how best to achieve a regional perspective and unified approach to artificial production reform in the Columbia River Basin.

## **Specific Committee Responsibilities**

- Advise the Council on the most effective ways to implement artificial production strategies described in the 2000 Columbia River Basin Fish and Wildlife Program and policies and recommendations outlined in the Artificial Production Review report.
  - Assist the Council in evaluating the appropriate purposes of artificial production programs and facilities. The committee will help define the approach, work plan and decision points for evaluating the purpose of all the artificial production programs and facilities over the next three years
  - Assist the Council in developing a plan that clearly defines regional artificial production goals and objectives that are consistent with the biological objectives found in the 2000 Fish and Wildlife Program.
  - Propose actions that will meet regional artificial production objectives and help to achieve intended reforms.
  - Assist the Council in determining appropriate artificial production performance standards.
  - Help to identify sources of artificial production information and data.
  - Assist in the review of specific artificial production programs.
  - On a quarterly basis, report to the Council on the status of artificial production reform in the basin.
-

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### **NWPPC Artificial Production Advisory Committee**

# Section 2.

# APAC Members

## Artificial Production Advisory Committee

<b>Organization</b>	<b>Name</b>	<b>Address</b>	<b>Phone No</b>	<b>E-mail</b>
<b>Northwest Power Planning Council</b>				
Northwest Power Planning Council	<b>Bruce Suzumoto</b>	851 SW 6 <sup>th</sup> Ave. Suite 1100 Portland, OR 97204	503-222-5161	<a href="mailto:bsuzumoto@nwppc.org">bsuzumoto@nwppc.org</a>
	<b>Mark Fritsch</b>			<a href="mailto:mfritsch@nwppc.org">mfritsch@nwppc.org</a>
	<b>Dan Warren Kendra Phillips</b>			<a href="mailto:dwarren@nwppc.org">dwarren@nwppc.org</a> <a href="mailto:kphillips@nwppc.org">kphillips@nwppc.org</a>
<b>Columbia Basin Fish and Wildlife Authority</b>				
Columbia Basin Fish and Wildlife Authority	<b>Brian Allee</b>	2501 SW First Ave., Suite 200 Portland, OR 97201-4752	503-229-0191	<a href="mailto:brian@cbfwf.org">brian@cbfwf.org</a>
<b>Tribal</b>				
Confederated Tribes of the Colville Reservation	<b>Joe Peone / Jerry Marco</b>	Highway 155 N. / P.O. Box 150 Nespelem, WA 99155	509-634-2113	<a href="mailto:joepeone@colvilletribes.com">joepeone@colvilletribes.com</a>
Spokane Tribes of Indians	<b>Keith Underwood</b>	Alex Sherwood Bldg., Main St. / P.O. Box 100 Wellpinit, WA 99040	509-258-7020	<a href="mailto:cctfish@mail.wsu.edu">cctfish@mail.wsu.edu</a> <a href="mailto:keithund@spokanetribe.com">keithund@spokanetribe.com</a>
Kalispel Tribe of Indians	<b>Joe Maroney</b>	1981 N Leclerc Rd. / P.O. Box 39 Usk, WA 99180	509-445-1147	<a href="mailto:jmaroney@knrd.org">jmaroney@knrd.org</a>
Kootenai Tribe	<b>Sue Ireland</b>	County Rd. 38A / P.O. Box 1269 Bonners Ferry, ID 83805	208-267-3620	<a href="mailto:ireland@kootenai.org">ireland@kootenai.org</a>
Coeur d'Alene Tribe	<b>Ronald Peters Ed Larson</b>	850 A Street / P.O. Box 408 Plummer, ID 83851	208-686-6307	<a href="mailto:rlpeters@cdatribe.org">rlpeters@cdatribe.org</a>
Nez Perce Tribe		Main St. / P.O. Box 365 Lapwai, ID 83540	208-843-7320	<a href="mailto:edl@nezperce.org">edl@nezperce.org</a>
Confederated Tribes of the Umatilla Indian Reservation	<b>Brian Zimmerman</b>	Old Mission Highway / P.O. Box 638 Pendleton, OR 97801	541-276-4106	<a href="mailto:brianzimmerman@ctuir.com">brianzimmerman@ctuir.com</a>
Confederated Tribes of the Warm Springs Reservation of Oregon Yakama Nation	<b>Bob Spateholts</b>	4223 Holiday St. / P.O. Box C Warm Springs, OR 97761	541-553-2045	<a href="mailto:bspateholts@wstribe.org">bspateholts@wstribe.org</a>
	<b>Patty O'Toole Tom Scribner</b>	4067 NE 23 <sup>rd</sup> Ave. Portland, OR 97212	503-331-9850	<a href="mailto:potoole@wstribe.org">potoole@wstribe.org</a> <a href="mailto:scribner@easystreet.com">scribner@easystreet.com</a>
Shoshone-Bannock Tribes of the Fort Hall Reservation	<b>Chad Colter</b>	29 Shoshone Dr. / P.O. Box 306 Fort Hall, Id 83203	208-478-3761	<a href="mailto:rezfish@poky.srv.net">rezfish@poky.srv.net</a>
Shoshone-Paiute Tribes of the Duck Valley Reservation	<b>Guy Dodson, Sr.</b>	Highway 51 Stateline/ P.O. Box 219 Owyhee, NV 89832-0219	208-759-3246	<a href="mailto:dvirfg98@aol.com">dvirfg98@aol.com</a>
Columbia River Inter-Tribal Fish Commission	<b>Doug Dompier</b>	729 NE Oregon St., Suite 200 Portland, OR 97232	503-731-1292	<a href="mailto:domd@critfc.org">domd@critfc.org</a>
Upper Columbia United Tribes	<b>Bill Wiles</b>	1500 W 4 <sup>th</sup> Avenue, Suite 406 Spokane, WA 99204	509-838-1057	<a href="mailto:bwiles@aimcomm.com">bwiles@aimcomm.com</a>

<b>Federal</b>				
Bonneville Power Administration	<b>Jeff Gislason</b>	KEWN P.O. Box 3621 Portland, OR 97208-3621	503-230-3594	<a href="mailto:jcgislason@bpa.gov">jcgislason@bpa.gov</a>
National Marine Fisheries Service	<b>Bob Foster</b>	F/NWR2 510 Desmond Drive Lacey, WA 98503	360-753-9594	<a href="mailto:robert.foster@noaa.gov">robert.foster@noaa.gov</a>
U.S. fish and Wildlife Service	<b>Lee Hillwig</b>	Columbia Basin Ecoregion 911 NE 11th Ave. Portland, OR 97232	503-872-2766	<a href="mailto:lee_hillwig@fws.gov">lee_hillwig@fws.gov</a>
<b>State</b>				
Idaho Department of Fish and Game	<b>Tom Rogers</b>	600 S. Walnut St. / P.O. Box 25 Boise, ID 83707	208-334-3791	<a href="mailto:trogers@idfg.state.id.us">trogers@idfg.state.id.us</a>
Oregon Department of Fish and Wildlife	<b>Trent Stickell</b>	2501 SW First Ave. / P.O. Box 59 Portland, OR 97207	503-872-5252	<a href="mailto:Trent.W.Stickell@state.or.us">Trent.W.Stickell@state.or.us</a>
Washington Department of Fish and Wildlife	<b>Unknown Seat</b>	600 Capitol Way N Olympia, WA 98501-1091		
Montana Department of Fish, Wildlife and Parks	<b>Gary Bertellotti</b>	1420 E 6 <sup>th</sup> Ave. / P.O. Box 200701 Helena, MT 59620-0701	406-444-2447	<a href="mailto:gbertellotti@state.mt.us">gbertellotti@state.mt.us</a>
<b>Utilities</b>				
Chelan PUD	<b>Steve Hayes</b>	327 N. Wenatchee Ave./ P.O. Box 1231 Wenatchee, WA 98807	509-663-8121	
Grant County PUD	<b>Stuart Hammond</b>	P.O. Box 872 Ephrata, WA 98823	509-754-5064	<a href="mailto:shammon@gcpud.org">shammon@gcpud.org</a>
<b>Non-Governmental Organization</b>				
Native Fish Society	<b>Bill Bakke</b>	P.O. Box 19570 Portland, OR 97280	503-977-0287	<a href="mailto:bmbakke@teleport.com">bmbakke@teleport.com</a>
<b>Independent Science</b>				
Oregon State University	<b>Ian Fleming</b>	Hatfield Science Center 2030 S.E. Marine Science Drive Newport, OR 97365	541-867-0255	<a href="mailto:Ian.fleming@hmsc.orst.edu">Ian.fleming@hmsc.orst.edu</a>
<b>Consulting for NWPPC</b>				
	<b>Steve Smith</b>	8462 S. Heinz Rd Canby, OR 97013	503-263-1253	<a href="mailto:huntersmith@canby.com">huntersmith@canby.com</a>

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### **NWPPC Artificial Production Advisory Committee**

# Section 3.

## Administrative Issues

### September 6 and 7 Meeting Minutes

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September 19, 2001

Northwest Power Planning Council, Artificial Production Advisory Committee

Date: September 6<sup>th</sup> - 7<sup>th</sup>, 2001

Time: 9:00 AM to 4:30 PM

Location: Northwest Power Planning Council Offices, Portland, OR.

### Agenda Items -

1. General Introduction
2. Members Introduction
3. Administrative Issues and Questions
4. Follow-up from August 15<sup>th</sup> 2001 Meeting
5. Review Agenda
6. Overview of Facility/Program Evaluation
7. Review Workshops

Ed Larson, Nez Perce Tribe and Sue Ireland, Kootenai Tribe of Idaho participated by telephone.

Bruce Suzumoto opened the meeting at 9:12 am, September 6, 2001.

Bill Bakke thought the minutes were getting more detailed but would still like more detail.

Doug Dompier stated that he and John Ogan are communicating per last weeks issues.

Bruce Suzumoto indicated that the schedule for the first few sub-basin plans might be aggressive and stressed that APAC products will fit into the sub-basin schedule. Keith Underwood expressed concerns that entities have too much work to get both sub-basin plans done and APAC products done. Brian thought that the two processes should be allowed to move independently as there is too much work to do. Lee Hillwig also expressed concerns about sequencing the schedule due to workload. Bruce Suzumoto stated the APAC work needs to feed into the sub-basin planning.

**Bob Foster** announced he will be working soon for NMFS in its Olympia office and representing NMFS at APAC.

**Bruce Suzumoto** presented an overview of the APAC work plan with a final APAC plan and budget to the Council in December 2001. The APAC review will take place from January through July 2002 with a draft evaluations report due at that time.

**Lee Hillwig** expressed concern about how the APAC work fits with what's being done in HGMPs. He expressed concern about duplication of effort or the two processes resulting in different outcomes. **Bruce Suzumoto** stated that information from completed HGMPs would provide input to the APAC process. He also expects the APAC report to help focus on development of HGMPs.

The whole group had a lengthy discussion about HGMPs and how they are completed and will evolve through time. They are a living document and will be changed as new information becomes available and objectives change. **Doug Dompier** stressed the need to stick with a hatchery format or reform will not happen.

**Doug Dompier** expressed concerns about who the independent contractors would be and how they might relate to "independent scientists".

In response to a question by **Bill Bakke**, **Bruce Suzumoto** explained that these contractors will be lined up over the next 3 months.

After July 2002, the draft APAC reports will undergo APAC, public, and scientific review with a final product completed in December 2002.

**Bruce Suzumoto** proceeded with an explanation of the review questions. Lee indicated USFWS has the 3A's – Appropriateness, Alignment, and Accountability. Bob Foster stressed the need to consider tribal rights in more than US v OR as 9 tribes are not party to that process.

**Doug Dompier** stressed the need to refer to hatchery impacts as having positive effects as well as the negative effects.

**Brian Zimmerman** wanted to know how the evaluation questions would relate to the Performance Standards and Indicators and whether the Council is on to a whole new set of questions other than the Performance Standards and Indicators (PSI). **Keith Underwood** indicated his frustration that APAC is not answering needed questions – nothing new is being done.

**Bruce Suzumoto** moved on to the APAC evaluations and deliverables.

**Bob Foster** wanted the benefits of hatcheries stressed.

**Bruce Suzumoto** responded for **Bill Bakke** that the costs of hatchery programs and a comparison to benefits would be reported.

**Brian Allee** summarized how all the processes can be viewed as integrating.

**Bruce Suzumoto** proceeded to explain the uses of the Evaluation and then how it relates to other processes ongoing in the basin.

**Bruce Suzumoto** proceeded into a presentation on what the overall planning of artificial production should be for the basin. Planning should proceed at the basin level in addition to the sub-basin level.

### *Break*

**Bruce Suzumoto** led a discussion of what the evaluation template should contain. He used an overhead that was included in the meeting packet.

**Bill Bakke** thought that a question needed to be asked about the legal mandate being met. **Doug Dompier** questions, has the legal mandate changed. **Brian Allee** said that questions in the PSI address legal standards. **Lee Hillwig** added that looking into conflicts between mandates would be necessary. **Ron Peters** and **Lee Hillwig** both emphasized the need to include tribal cultural values in the mandates. **Brian Allee** continued to quote from the PSI in the APR Report (99-15) – stressing the point that we have addressed the needed information already in the standards.

**Doug Dompier** stressed the need for the contractors to get all the needed information from all parties. **Bob Foster** stated that the contractors should have their draft reports reviewed by all parties so they don't just obtain input from the owner/operator of a hatchery program.

**Bill Bakke** wanted both fish health and the Clean Water Act needs to be considered in the review.

**Neil Ward** indicated that the anadromous outline should serve the resident fish reports with some changes in a few terms.

**Tom Scribner** indicated that smolt survival during migration should be considered.

**Steve Smith** wanted to know how much detail everyone thinks this review should gain before it overloads or duplicates the other more detailed processes. Several APAC members agreed that it was getting too detailed. **Brian Zimmerman** felt that the detail is needed to get to good recommendations.

**Brian Allee** stressed that the APAC review is a 2-step process – a purpose review first to be followed up by more detailed review in September of 2002 where the detail is needed.

**Keith Underwood** felt the review needed to measure the success of a program by measuring fish in the creel. Needs to link the hatchery and its product to the fishing experience and success. It needs to be able to distinguish where a problem might exist – in the hatchery, with the hatchery product, or in the environment to which the product is placed.

Concerning legal requirements, the group added FERC license requirements (including settlements), Tribal Treaty rights, trust responsibilities, and executive orders. Also Clean Water Act, state laws, and Corps Section 10 permits need to be considered.

**Bruce Suzumoto** introduced the subject of impacts of a program on other fish. Bruce indicated the need to coordinate with the harvest managers as **Steve Smith** indicated that a problem still exists in mixed-stock harvests that pursue hatchery fish.

**Doug Dompier** expressed concern that weak stocks were being used to justify restricting mixed stock harvest.

The group added Performance standards #8 and #1 as relevant to impacts to other fish.

**Ed Larson** expressed the need to change harvest management if we are to restore the anadromous fish ecosystem. Ed hopes that APAC will address the harvest issues as they relate to hatchery propagation.

**Doug Dompier** expressed concerns that the governors are seeking mass mutilation of hatchery fish to support selective fisheries and therefore hatchery reform will not occur.

## **Lunch**

A decision was made not to split into the 3-separtate workgroups for the afternoon session, but stay together in one group.

A question was asked as to why reforms had not taken place? **Doug Dompier** answered no penalty. **Lee Hillwig** answered that there has not been evaluations of hatcheries that were a guide for reform. Others identified that IHOT has yet to be implemented because the technical review did not answer the need for new policies.

There was discussion by **Lee Hillwig** and **Doug Dompier** on whether other people need to be at the APAC table for a policy level review. **Bruce Suzumoto** stated that the reform requires both policy and technical issues.

**Brian Allee** agreed with **Doug Dompier** that a big issue is harvest policy as it relates to how hatcheries are operated. Harvest policy people need to be involved if reform of hatcheries is to be most successful.

**Steve Smith** agreed that there are two primary hatchery/harvest strategies in the basin and that it may be too soon to know which strategy is correct. Should the Council pursue

an approach that implements both strategies on an experimental basis until sufficient hatchery effectiveness information exists and selective harvest information exists to settle on a single basin wide hatchery/harvest strategy? BPA's EIS is also asking the question about apparent conflicting policies and the effects of such conflicts on meeting their mission and effects on their budget.

**Bruce Suzumoto** indicated that APAC is the only forum in the basin that is currently looking at artificial production on a basin wide scale and must address these issues.

**Guy Dodson Sr.** indicated that there must be a negotiated agreement to proceed on these policy issues.

**Doug Dompier** wants the Council to host a gathering of policy people to address how to manage the hatcheries. Its time for the Council members to talk to the policy leaders of the agencies and tribes and not just the technical people. Council operates best by addressing the big policy issues like it did in the past.

**Steve Smith** suggested that a goal of APAC would be to not try to resolve the disagreement on the two big hatchery/harvest strategies, but to agree to disagree and move forward on how the hatcheries can be made consistent with future sub-basin plans and to gather as much information as fast as possible in hatcheries and harvest to help resolve the major policy disagreement.

\*\*APAC would like NMFS to clarify its BiOp RPA on the marking of spring Chinook. Does the RPA call for marking all hatchery spring Chinook or marking those destined for potential harvest? **Bruce Suzumoto** will pursue this clarification with Larry Rutter before the next meeting.

**Bruce Suzumoto** used flip charts to record input on the key evaluation questions. These charts should be viewed for this input (see Attachment).

**Brian Zimmerman** expressed concern about the review being a programmatic evaluation or a technical evaluation. **Bruce Suzumoto** suggested it is both.

**Brian Allee** and **Ed Larson** stated that the IEAB should be requested to investigate the economic benefits of hatcheries – not cost-effectiveness or cost/benefit, but cash flow or economic activity associated with the hatchery product.

**Steve Smith** suggested that the outcome of the purpose review could be some hatchery programs getting a green light to IHOT-based investments, ESA reforms, and other funding actions. Other hatchery programs might be identified as needing to await completion of sub-basin planning before investing new funds. And finally other programs could be problematic and/or controversial in their purpose or success and be put to a more detailed review process – not ready for reform investment until the issues are resolved.

Again, considerable information was recorded on flip charts by **Bruce Suzumoto**. (See Attachment)

***Break***

**Bruce Suzumoto** started the afternoon session by asking where the raw information for the APAC evaluation review might be gathered. This information was recorded on several flip charts (Attached).

**Bruce Suzumoto** then asked who in APAC could help in the review. Also Bruce asked for suggested names for the independent contractors. These names were recorded on flip charts. **Doug Dompier** suggested hiring one consulting firm to supply all of the needed personnel. Doug is concerned about the independence of anybody. Who are they and where are they?

**Dan Warren** suggested looking for a Project Manager /data manager to add to the team for gathering and organizing the information. **Tom Rogers** stated that agency and tribal people will be required to locate and provide the information. **Bob Foster** suggested Montgomery/Watson.

**Brian Allee** suggested costing out several options: several independent specialists, and a large firm. Each has its strengths and weaknesses. **Lee Hillwig** suggested funding agencies and tribes to do the work as part of sub-basin planning.

**Doug Dompier** stressed the need for the Council to set the vision for hatcheries in the basin. Steve suggested the policies and principles in the APR report. Doug was more interested in the vision of the Council in how to apply these policies and principles. **Tom Scribner** stated that if the Council could do one thing it would be to articulate its vision on this hatchery and harvest issue – and broader goals.

**Keith Underwood** is concerned about a top down approach to fish management rather than relying on the sub-basin, bottom up approach. He expressed that there may be too much overload on the APAC to try an in depth basin strategy. Thinks we should focus on a “sum of the parts” approach vs. an engineered approach at the big scale. The group discussed ways of balancing top down and bottom up.

**Bruce Suzumoto** stated that the APAC could develop a basic model that allows analysis of alternative basin production scenarios.

**Brian Allee** suggested top down thinking applied to resident fish at the Province level. Bruce suggested provincial goals and objectives for resident fish and a model at the provincial level.

Meeting was adjourned at 3:59pm. Meeting will re-convene Friday September 7, 2001.

## FRIDAY SESSION

Meeting was opened at 8:05 am by **Bruce Suzumoto**.

**Bruce Suzumoto** continued his polling of potential names for contractors to do the review and evaluation. This information was recorded by Bruce on the flip charts. (see Attachment)

**Keith Underwood** proposed that criteria for selection of contractors were more important than actual names.

**Brian Zimmerman** suggested different people and backgrounds for the first phase of the review as compared to the second phase. Suggested that even legal backgrounds might be appropriate for the first phase. **Doug Dompier** suggested Lewis & Clark Law School personnel and students.

**Ian Fleming** suggested one or more people to summarize the information and one or more to analyze the information.

**Steve Smith** suggested a blend of local and distant personnel across the required skills to get a blend of backgrounds. As a team this might produce the best product. **Keith Underwood** insisted that some of the people be from outside the region.

**Ian Fleming** suggested tying in with NSF panel looking at Atlantic salmon issues.

**Lee Hillwig** suggested expertise in fish health and physiology in addition to basic fish culture experience.

**Steve Smith** suggested a green, yellow, and red light outcome of the hatchery review. Green light programs would be available for immediate funding, yellow light would need to await completion in sub-basin planning, and a red light would send a program to a more detailed review.

**Ian Fleming** - Commented on needing to look at the “scheme of hatcheries” in the basin and leave the politics out.

**Doug Dompier** expressed concern about giving the politicians too much latitude with the outcome of the hatchery review. **Bob Foster** suggested that sub-basin planning will set the local goals and objectives for use of hatcheries.

**Lee Hillwig** suggested the APAC make suggestions on how to improve a program if it shows up to be a problem.

**Bruce Suzumoto** agreed that it’s both – identifying if problems exist and what to do to improve the program.

**Tom Rogers** expressed concern about APAC micro-managing individual hatcheries.

**Bruce Suzumoto** wanted to start a discussion about the big basin-wide picture – future of salmon and salmon economics. **Ian Fleming** felt we needed the basic information first before entertaining the big picture and how to shape it.

**Keith Underwood** stressed the need to stick with a bottom up approach from the sub-basins. **Steve Smith** suggested we needed a basic discussion of the big picture so that the review process collects the right basic hatchery information for a later detailed big-picture review.

**Brian Zimmerman** expressed concerns about APAC analyzing major production policy issues with the membership of APAC. Such effort needs higher-level policy people. **Bruce Suzumoto** suggested APAC members be conduits to their policy people for these issues or bring them to APAC for such discussions.

**Keith Underwood** is concerned that going into the big picture policy arena, might lead to fishery co-managers killing the APAC process before it gets started.

**Lee Hillwig** was concerned that if hatchery planning is only based on sub-basin planning, it won't consider the broader regional and international implications. FWS can't participate if the process is only sub-basin based per policy issues.

**Steve Smith** suggested APAC consensus on Phase I and Phase II of the review, but problems arise on the big picture policy discussions. Perhaps everyone can agree to collect the information in the review that can then be used later by APAC or US v OR, or some other gathering of managers to review the big picture policy issues. But collect the information now.

### *Break*

**Bruce Suzumoto** suggested Council staff prepare the review templates and brief the Council.

**Doug Dompier** wanted Council talking to fishery agency and tribal leadership before showing them draft templates for the review? **Bob Foster** thought the Council needed to be briefed ASAP or we will miss too much time. Doug was comfortable with a briefing of the Council, but not specific approval of the templates without prior OK by APAC and policy level briefings.

**Bruce Suzumoto** offered for APAC members to assist him in a Council briefing. Next Council meeting is September 26-27 in Spokane.

**Bruce Suzumoto** is thinking the next meeting of the anadromous sub-APAC on October 10<sup>th</sup> in Portland. **Keith Underwood** said the resident fish people are meeting in Lewiston

on October 16th and 17<sup>th</sup>. Will look for a resident fish sub-APAC meeting on the 15<sup>th</sup> in Lewiston.

**Brian Allee** returned from a meeting at BPA on funding HGMPs. There is lack of clarity from NMFS BiOP on HGMP's. There are HGMPs and HGMP+s. Sarah McNary requested that APAC help clarify. Brian stated that the HGMP template was included in the APR report. BiOp came out later and mentioned the HGMP+. Want APAC to clarify. Lee stated that NMFS/FWS has the action agencies providing HGMPs instead of biological assessments. But the HGMP+ was to cover hatchery issues above the jeopardy standard to cover recovery as well. These are dynamic documents that will change as programs to change to meet future needs. The HGMP+ was to cover not just existing hatchery operations, but reformed or expanded operations to help where necessary in recovery.

**Doug Dompier** demanded that APAC not get involved in this issue. Just have the Council put in their program that BPA fund HGMPs and get past this muddling. **Steve Smith** requested that NMFS and USFWS who are meeting on Monday on this issue, prepare a 1 page written explanation. **Bob Foster** suggested that NMFS and USFWS should deal with this issue.

**Lee Hillwig** clarified that the issue isn't the HGMP template – it's the same as the HGMP+. The issue is that NMFS and USFWS are requiring BPA through the BiOp to prepare HGMPs on more than just those actions to prevent jeopardy from a hatchery, but to include in the HGMPs actions at hatcheries that improve viability of listed populations to help the hydro system get to “no jeopardy” through off-site mitigation.

**Doug Dompier** wanted to be sure that the right and knowledgeable people from NMFS give any presentation to APAC on this HGMP people.

**Steve Smith** requested that he give a presentation on the Safety-Net Propagation Program at the next meeting.

Meeting adjourned at 10:55 am.

**These minutes are an accurate and complete summary of the matters discussed and conclusions reached at the Artificial Production Advisory Committee meeting held on September 6, 2001 and September 7, 2001.**

Signed by DW, 9/19/01

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**Dan Warren, Project Manager, Planner**

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September 19, 2001

### Artificial Production Advisory Committee (APAC)

Date: September 6, 2001

Place: Portland, Oregon

Time: 9AM - 4:00 PM

### Artificial Production Advisory Committee September 6, 2001 Meeting Attendance

	Name	In Attendance September 6, 2001
Northwest Power Planning Council	Bruce Suzumoto, Dan Warren	Present Present
Columbia Basin Fish and Wildlife Authority	Brian Allee Neil Ward	Present Present
Confederated Tribes of the Colville Reservation	Joe Peone Jerry Marco	Not Present Not Present
Spokane Tribes of Indians	Keith Underwood	Present
Kalispel Tribe of Indians	Joe Maroney	Not Present
Kootenai Tribe	Sue Ireland	Present by Phone
Coeur d'Alene Tribe	Ronald Peters	Present
Nez Perce Tribe	Ed Larson	Present by Phone
Confederated Tribes of the Umatilla Indian Reservation	Brian Zimmerman	Present
Confederated Tribes of the Warm Springs Reservation of Oregon	Bob Spateholts Patty O'Toole	Not Present Not Present
Yakama Nation	Tom Scribner	Present
Shoshone-Bannock Tribes of the Fort Hall Reservation	Chad Colter	Not Present
Shoshone-Paiute Tribes of the Duck Valley Reservation	Guy Dodson, Sr.	Present
Columbia River Inter-Tribal Fish Commission	Doug Dompier	Present
Upper Columbia United Tribes	Bill Wiles	Not Present
Bonneville Power Administration	Tom Backman	Not Present
National Marine Fisheries Service	Rob Jones	Not Present
U.S. Fish and Wildlife Service	Lee Hillwig	Present

Idaho Department of Fish and Game	Tom Rogers	Present
Oregon Department of Fish and Wildlife	Trent Stickell	Not Present
Washington Department of Fish and Wildlife	Bob Foster	Present
Montana Department of Fish, Wild life and Parks	Gary Bertellotti	Not Present
Chelan PUD	Steve Hayes	Not Present
Grant County PUD	Stuart Hammond	Present
Native Fish Society	Bill Bakke	Present
Contractor	Steve Smith	Present
Oregon State University	Ian Fleming	Present

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September 19, 2001

### Artificial Production Advisory Committee (APAC)

Date: September 7, 2001

Place: Portland, Oregon

Time: 8AM - 12:00 PM

### Artificial Production Advisory Committee September 7, 2001 Meeting Attendance

	Name	In Attendance September 7, 2001
Northwest Power Planning Council	Bruce Suzumoto, Dan Warren	Present Not Present
Columbia Basin Fish and Wildlife Authority	Brian Allee	Present
Confederated Tribes of the Colville Reservation	Joe Peone Jerry Marco	Not Present Not Present
Spokane Tribes of Indians	Keith Underwood	Present
Kalispel Tribe of Indians	Joe Maroney	Not Present
Kootenai Tribe	Sue Ireland	Not Present
Coeur d'Alene Tribe	Ronald Peters	Present
Nez Perce Tribe	Ed Larson	Not Present
Confederated Tribes of the Umatilla Indian Reservation	Brian Zimmerman	Present
Confederated Tribes of the Warm Springs Reservation of Oregon	Bob Spateholts Patty O'Toole	Not Present Not Present
Yakama Nation	Tom Scribner	Not Present
Shoshone-Bannock Tribes of the Fort Hall Reservation	Chad Colter	Not Present
Shoshone-Paiute Tribes of the Duck Valley Reservation	Guy Dodson, Sr.	Present
Columbia River Inter-Tribal Fish Commission	Doug Dompier	Present
Upper Columbia United Tribes	Bill Wiles	Not Present
Bonneville Power Administration	Tom Backman	Not Present
National Marine Fisheries Service	Rob Jones	Not Present
U.S. Fish and Wildlife Service	Lee Hillwig	Present

Idaho Department of Fish and Game	Tom Rogers	Present
Oregon Department of Fish and Wildlife	Trent Stickell	Not Present
Washington Department of Fish and Wildlife	Bob Foster	Present
Montana Department of Fish, Wildlife and Parks	Gary Bertellotti	Not Present
Chelan PUD	Steve Hayes	Not Present
Grant County PUD	Stuart Hammond	Present
Native Fish Society	Bill Bakke	Present
Contractor	Steve Smith	Present
Oregon State University	Ian Fleming	Present

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## ***Draft Attachment to APAC Meeting Notes for September 6 and 7, 2001*** **Notes taken from Chart Board during Meeting**

### **Legal/Policy Requirements**

- CWA
- Tribal Treaty Rights
- FERC
- Settlement Agreements
- Trust Responsibilities
- Specific Inter-Organization Agreements
- State Laws
- COE Process Section 10/404
- Section 7 Consultation

### **Purpose/Program Template**

- Is Purpose Being Achieved?
- Legal Mandates Changed
- Performance Standards/Indicators
- Is there a Conflict of Mandates?
- Stable/Predictable Harvest
- Biodiversity of Hatchery Population
- Contribution Goal to Fisheries
- Treaty Right Standards.
- Contribution to Natural Runs
- Cultural/Spiritual Applicable to All
- Escapement Goal #8 Performance Standards and Indicators
- Meet Fish Health #7 Performance Standards and Indicators
- Brood Source
- Meet CWA Requirement
- Smolt to Smolt Survival (Post Smolt Survival)
- Stepwise Sorting Needed
- Identify Weak Production Link
- Egg to Creel Measure
- Conservation Benefit
- Sequence of Changes

## **Effects on Other Species**

- #8 Performance Standards and Indicators
- #1 Performance Standards and Indicators
- Integration of Harvest

## **Making Evaluations Useful as a Tool**

- Identification of Hatchery Fish
- Must Have Agreement
- Purpose/Technical Relation
- Cost-Effectiveness
- Lay Out Alternatives
- Economic Benefits Identified
- Identify Strategies
- Context for Further Review of Programs
- Stepwise Reform
- Resolve Important Research Questions
- Economic Benefits for Resident Fish
- Method to Prioritize Actions

## **What is Lacking in Artificial Production?**

- Lack of Focus
- Accountability/Penalty
- Are There Previous Evaluations?
- Funding
- Significant Reform Measures not Identified
- Policy Issues - Workshop
- Coordination with Harvest Managers
- Benefits Workshop - How to Coordinate Policies
- Larry Rutter - Clarify Marking Program
- Can Both Strategies be Implemented?
- Is There an Experiment That Can Be Done
- Policy Buy-In
- Resident Fish Evaluations Lacking

## **Potential Data/Information/Resources Available**

- IHOT Reports
- ID Rivers Cost/Benefit
- State/Fed Database

- FPC - Smolt Data
- USFWS Columbia River Information System
- StreamNet
- Federal Aid Program Res. Fish
- PSMFC
- BA's Bi-Ops
- HGMP All-Species Review
- Hatchery Annual Reports
- Annual Operating Plans
- Harvest Management Plans
- US vs OR Fisheries Agreements
- L.S. Comp Plan
- ID Power Settlement Act
- Montgomery /Watson Background Reports
- BPA Project Progress Reports - BPA Source Documents
- Marking Summary - FWS
- Subbasin Summaries/Plans
- FPC - Reach Survey Studies
- USFWS - Station Guides
- Mitchell Act Review
- HET Reports - USFWS
- Old Council Program
- USFWS - Annual Reports
- FERC License/Application Agreements
- BAMP - FERC

## **Does It Make Sense**

- Subbasin Plan Compliance
- HGMP Issues

## **Potential Contractor List**

- Harry Senn
- Sea - Greg Ferguson
- Consulting Firms
- Jerry Bauer
- A.J. Demeris
- Wayne Olsen
- Don ZirJack
- Bob Piper

## **Criteria for Potential Contractors**

- Understanding of History
- People Skills
- Legal review
- L & C Law School
- Clean Slate - Outside Basin
- Summary Info - Evaluate
- Combination of the List
- International Experience
- Dan Evans
- Explore other Ongoing Processes - East Coast AT. Salmon
- Fish Health Physiologist
- Sorting Process of Prioritizing Actions Red/Yellow/Green
- Not Get Involved in Politics
- Provide Options to Council
- Provide Sideboard

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### **NWPPC Artificial Production Advisory Committee**

# Section 4.

# Agenda

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NWPPC Artificial Production Advisory Committee  
Draft Agenda for Work Session (Anadromous Workgroup)  
Date: October 10, 2001  
Location: Northwest Power Planning Council  
851 S.W. Sixth Avenue, Suite 1100  
Portland, Oregon 97204-1348

Conference Call in Number - 800-452-5170 pass code 2792

Item No.	Subject	Time Period		Presenter(s)
		From	To	
1	General Introduction	9:00 AM		Bruce Suzumoto
2	Members Introduction (Self re-introduction and other members )			
3	Administrative Issues and Questions Minutes and Attachments from last meeting		9:15 AM	Bruce Suzumoto
4	Review Agenda	9:15 AM	9:30 AM	
5	Current Schedule and Workplan Update Key Issues and Current Status	9:30 AM	9:45 AM	Dan Warren
6	NMFS Bi Op RPA on Marking Spring Chinook	9:45 AM	10:00 AM	Larry Rutter
	<i>Break</i>	10:00 AM	10:15 AM	
7	Status of HGMP's (NMFS, USFWS)	10:15	11:00 AM	Bob Foster, Larry Rutter, Lee Hillwig
8	Data and Information Needs	11:00 AM	11:30 AM	Bruce Suzumoto
9	Work Session Facility / Program Evaluation Template Phase I (Anadromous)	11:30 AM	12:00 Noon	Bruce Suzumoto (Facilitate)
	<i>LUNCH</i>	12:00 Noon	1:00 PM	
	Work Session Facility / Program Evaluation Template Phase I and II (Anadromous)	1:00 PM	3:00 PM	Bruce Suzumoto (Facilitate)
	<i>BREAK</i>	3:00 PM	3:15 PM	
	Work Session Facility / Program Evaluation Template Phase I and II (Anadromous)	3:15 PM	4:00 PM	Bruce Suzumoto (Facilitate)
10	Public Comment	4:00 PM	4:15 PM	
11	Next Meeting Time and Place / Final Wrap up / Other	4:15 PM	4:30 PM	Bruce Suzumoto

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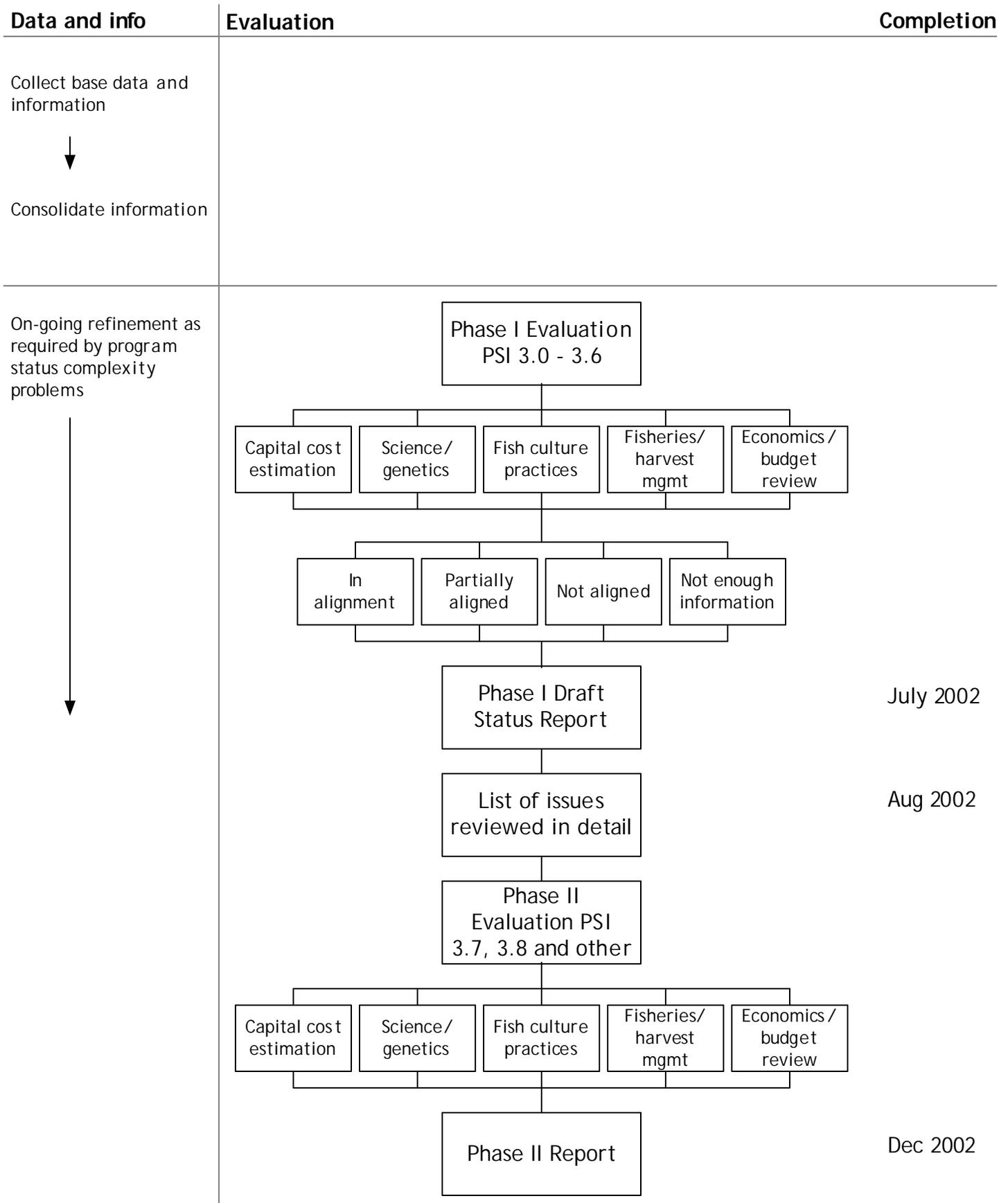
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### **NWPPC Artificial Production Advisory Committee**

# Section 5.

# Current Schedule and Workplan Update

# Artificial production facility/program evaluation



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### **NWPPC Artificial Production Advisory Committee**

# Section 6.

# NMFS Bi-OP RPA on Marking Spring Chinook

(Insert Handouts from Larry Rutter and Bob Foster)

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### **NWPPC Artificial Production Advisory Committee**

# Section 7

## Status Report on HGMP's

(Insert Handouts from Bob Foster, Larry Rutter, Lee Hillwig)

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### **NWPPC Artificial Production Advisory Committee**

# Section 8.

# Data and Information

## **Discussion on Data and Information**

A base data set will be needed before evaluation starts.

It will be critical to assure that any data and/or information collected is accurate and applicable to the questions that will be asked in the facility / program evaluation.

To assure a fair and accurate evaluation involvement will be needed from managing agencies and tribes in assuring accuracy.

Collection of this data and information will be a collaborative process between fisheries and facility managers and NWPPC staff and contractors.

Formats provided for collection of base data will be simple.

Resources will be provided to assure that data and information collection is not a burden to providers.

Specificity of data may require facility manager involvement to assure accuracy.

Existing and completed work and or data resources will be used for the evaluation or comparisons of findings where applicable.

Facility and program information and data will be made available in a form that provides a tool to users (managers).

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### **NWPPC Artificial Production Advisory Committee**

# Section 9.

# Facility and Program Evaluation

## Phase I and II

**OBJECTIVES AND OUTCOMES  
PHASE I  
FACILITY/ PROGRAM PURPOSE REVIEW AND EVALUATION**

**OBJECTIVES:**

This Hatchery Purpose Review and Evaluation has several objectives:

1. Determine consistency with legal, policy, and scientific criteria.
2. Determine alignment of program mandate, purpose, and operations.
3. Inform the sub-basin planning process about the extent and appropriateness of artificial production programs within sub-basin waters.
4. Determine the state and progress of hatchery reform in the Columbia River Basin.
5. Estimate the funding requirements for hatchery reform.
6. Create a central database of critical artificial production information to monitor reform, inform fisheries managers, support other regulatory and planning processes, and analyze future production/harvest strategies and scenarios.
7. Determine if the production program optimally contributes to current fishery management objectives and priorities.

Of these objectives, Phase I will address objective #4, the state and progress of hatchery reform. This will be a mid-point audit on the region's performance in achieving desired reforms. Phase I will generally address objective #2, alignment of mandate, purpose, and operations. Phase I is also designed to gather background information from which the more detailed Phase II Review and Evaluation can proceed most expeditiously and in a prioritized manner.

**PROCESS:**

The Phase I Hatchery Review and Evaluation Template will be reviewed by APAC. Phase I will be conducted by contractors of the Northwest Power Planning Council with the assistance of fishery managers. Hatchery operating and funding entities will be given an initial opportunity to review draft Phase I reports. APAC members will also be given an opportunity for review and comment on all Phase I reports.

**OUTCOMES:**

The Phase I reports will conclude as to each program’s alignment of mandate, purpose, and critical operations. This information will be provided to fishery managers, sub-basin planners, NMFS/USFWS, and the Northwest Power Planning Council. This information will be used to scope and prioritize the Phase II Review and Evaluation as production programs will be preliminarily categorized as “Aligned”, “Unaligned”, or Partially Aligned”. Report conclusions will also aid the above entities in focusing their planning, funding and regulatory responsibilities to ensure alignment of production programs with current policies and fishery management realities.

[PhaseIntro]

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### **NWPPC Artificial Production Advisory Committee**

# Section 9A.

# Facility and Program Evaluation

## Phase I

October 4, 2001

**DRAFT**

**TEMPLATE FOR  
FACILITY/ PROGRAM PURPOSE REVIEW & EVALUATION  
PHASE I – ANADROMOUS FISH**

**PART I – BACKGROUND INFORMATION**

**PROVINCE:**

**SUBBASIN:**

**HATCHERY FACILITY:**

**SPECIES/STOCK RELEASED:**

*(use ESU nomenclature)*

**NUMBER/SIZE RELEASED:**

*Give #, size, and location of all release groups*

**HGMP:**

*Has an HGMP been prepared? (Y/N)*

*(SRT #3)*

**SUB-BASIN SUMMARY:**

*Has a sub-basin summary plan been completed for the watershed to which hatchery fish are planted? (Y/N)*

**PROVINCIAL, SUB-BASIN, REGIONAL GOALS:**

*Are there clear provincial, basin, or regional goals and/or objectives to which the production facility is operated? (Y/N) If Yes, in what document are those goals described.*

**ESA COVERAGE:**

*Does the production program have current ESA coverage? (Y/N) If Yes, under what section 10 permit, section 7 Biological Opinion, or 4(d) regulation is the program covered? When does the ESA coverage expire?*

**MONITORING & EVALUATION:**

*Does the production program have an active M&E plan that reasonably addresses the program's benefits and risks per the "Performance Standards and Indicators..."? (Y/N)  
(SRT #16&17)*

## **OPERATIONAL, MAINTENANCE COSTS**

*Provide records of operational and maintenance costs for full operation of facility and or program.*

## **PART II – MANDATE & PURPOSE INFORMATION**

### **LEGAL MANDATE(S):**

*Under what legal mandate(s) does the production program/facility operate? (select from 5 APR mandates) (PS&I #3.1)*

### **CURRENT PURPOSE:**

*What is the current purpose of the production program and/or facility? (select from 5 APR purposes)*

### **INITIAL PURPOSE:**

*What was the purpose of the production program when it was initially conceived and constructed? (select from 5 APR purposes)*

### **FUTURE PURPOSE:**

*What is the anticipated purpose of the production program in the near future? (select from 5 APR purposes)*

### **MANDATE/PURPOSE CONSISTENCY:**

*Is the current purpose consistent with the legal mandate under which the program was authorized or initiated?(Y/N) If No, explain.*

### **OPERATIONAL GOALS/ OBJECTIVES:**

*Are there specific goals and objectives outlined all stages of production?*

*Success in meeting historical program production/return goals:*

- 1. Broodstock collection*
- 2. Broodstock survival*
- 3. Eggtake number*
- 4. Green egg to eyed egg survival*
- 5. Eyed egg to fry survival*
- 6. Fry to smolt survival*
- 7. Smolt quality/release characteristics*
- 8. Release number*
- 9. Adult returns (SAR)*
- 10. Etc*

### **RECENT REFORMS:**

*In the past 10 years, has the production program undergone any significant changes due to the ESA, APR, research and M&E findings, etc.? (Y/N) If Yes, briefly describe the changes and their rationale. Do not include changes due only to budget modifications.*

### **PART III - INFORMATION BASED ON PURPOSE**

#### **AUGMENTATION PURPOSE**

Are numbers of juvenile fish released determined by estimated habitat carrying capacity of the receiving waters? (SRT #8) (PS&I #3.4.4)

Are sufficient numbers of fish marked to determine survival, escapement, and contribution rates? Where are those data located?  
(PS&I #3.2.2)

To which specific fisheries is the production targeted to enhance? (PS&I # 3.2.1)

Are the targeted fisheries in compliance with ESA procedures that limit the take of ESA-listed species? (PS&I # 3.2.1)

Is straying of hatchery fish monitored and evaluated annually?

#### **MITIGATION PURPOSE**

Does the program use local brood stock from the watershed(s) in which juveniles are released?

Are brood stock taken from throughout the return? (PS&I # 3.4.1)

Are brood stock collection protocols consistent with the purpose?

Does the production program have genetic guidelines for maximizing the potential for recovery of natural spawning populations? (SRT #13)

Are natal stream waters and temperature regimes used in final rearing and/or acclimation of anadromous fish prior to release? (SRT #6&7) (PS&I #3.5.4)

Are numbers of juvenile fish released determined by estimated habitat carrying capacity of the receiving stream? (SRT #8) (PS&I #3.4.4)

Are sufficient numbers of fish marked to determine survival, escapement, and contribution rates? (PS&I #3.2.2)

Is straying of hatchery fish monitored and evaluated annually?

## RESTORATION PURPOSE

Does the program use local brood stock from the watershed(s) in which juveniles are released?

Does the production program have genetic guidelines for maximizing the potential for recovery of natural spawning populations? (*SRT #13*)

Are brood stock taken from throughout the return? (*PS&I # 3.4.1*)

Are strays excluded from breeding populations? (*SRT # 12*)

Are brood stock collection protocols consistent with the purpose?

Does the program employ incubation and rearing conditions that resemble the natural environment? (*SRT #1&2*)

Is timing of anadromous fish production releases synchronized with emigration of supplemented population? (*SRT #4*)

Are natal stream waters and temperature regimes used in final rearing and/or acclimation of anadromous fish prior to release? (*SRT #6&7*) (*PS&I #3.5.4*)

Are sufficient numbers of fish marked to determine survival rates, escapement, and contribution to natural spawning? (*PS&I #3.2.2*)

Are numbers of juvenile fish released determined by estimated habitat carrying capacity of the receiving stream? (*SRT #8*) (*PS&I #3.4.4*)

Is the number of hatchery-origin fish spawning in the habitat monitored annually? (*PS&I #3.3.1*)

## PRESERVATION/CONSERVATION PURPOSE

Does the program use local brood stock from the watershed(s) in which juveniles are released?

Does the production program have genetic guidelines for maximizing the potential for recovery of natural spawning populations? (*SRT #13*)

Are brood stock taken from throughout the return? (*PS&I # 3.4.1*)

Are brood stock collection protocols consistent with the purpose?

Are sufficient numbers of fish marked to determine survival rates and contribution to natural spawning? (PS&I #3.2.2)

Does the program employ incubation and rearing conditions that resemble the natural environment? (SRT #1&2)

Is timing of anadromous fish production releases synchronized with emigration of supplemented population? (SRT #4)

Are natal stream waters and temperature regimes used in final rearing and/or acclimation of anadromous fish prior to release? (SRT #6&7) (PS&I #3.5.4)

Are numbers of juvenile fish released determined by estimated habitat carrying capacity of the receiving stream? (SRT #8) (PS&I #3.4.4)

### RESEARCH PURPOSE

Are brood stock collection protocols consistent with the purpose?

Are numbers of juvenile fish released determined by estimated habitat carrying capacity of the receiving stream? (SRT #8)

Does the research address a critical uncertainty about artificial propagation?  
*Reproductive success of hatchery fish relative to wild fish; Success of natural rearing protocols relative to standard rearing protocols; ecological effects of hatchery fish in local sub-basins; improving smolt survival and contribution to program purpose.*

### **PURPOSE/OPERATIONS CONSISTENCY:**

*Are the critical operational protocols consistent with the purpose of the program?*

### **CONCLUSION:**

*Provide conclusion on alignment of mandate, purpose, and operations. Is the program “In Alignment”? “Partially Aligned”? or “Unaligned”?*

## PART VI – REFERENCES

*List references (reports, electronic information, personal communications) used in this Purpose Review.*

***SUMMARY of KEY DOCUMENTS FOR FACILITY/ PROGRAM  
EVALUATION***

ARTIFICIAL PRODUCTION REVIEW

- MANAGEMENT HIERARCHY -

**8 SCIENTIFIC & ECOLOGICAL PRINCIPLES**

**5 LEGAL MANDATES**

**5 PURPOSES OF ARTIFICIAL PRODUCTION**

**10 ARTIFICIAL PRODUCTION POLICIES**

**PERFORMANCE STANDARDS & INDICATORS**

**MONITORING AND EVALUATION**

**8 SCIENTIFIC & ECOLOGICAL PRINCIPLES**

1. **THE ABUNDANCE AND PRODUCTIVITY OF FISH AND WILDLIFE REFLECT THE CONDITIONS THEY EXPERIENCE IN THE ECOSYSTEM AND OVER THE COURSE OF THEIR LIFE CYCLE**
2. **NATURAL ECOSYSTEMS ARE DYNAMIC, EVOLUTIONARY, AND RESILIENT**
3. **ECOSYSTEMS ARE STRUCTURED HIERARCHICALLY**

4. **ECOSYSTEMS ARE DEFINED RELATIVE TO SPECIFIC COMMUNITIES OF PLANT AND ANIMAL SPECIES**
5. **BIOLOGICAL DIVERSITY ACCOMMODATES ENVIRONMENTAL VARIATION**
6. **ECOSYSTEM CONDITIONS DEVELOP PRIMARILY THROUGH NATURAL PROCESSES**
7. **ECOLOGICAL MANAGEMENT IS ADAPTIVE AND EXPERIMENTAL**
8. **HUMAN ACTIONS CAN BE KEY FACTORS STRUCTURING ECOSYSTEMS**

#### **5 LEGAL MANDATES**

1. **TREATY FISHING RIGHTS AND OTHER RIGHTS OF INDIAN TRIBES**
2. **OBLIGATION IN THE NORTHWEST POWER ACT TO PROTECT, MITIGATE, AND ENHANCE FISH & WILDLIFE AFFECTED BY HYDRDOELECTRIC DEVELOPMENT**
3. **REQUIREMENTS OF THE ENDANGERED SPECIES ACT**
4. **VARIOUS MITIGATION OBLIGATIONS IN LAW AND AGREEMENT – SUCH AS MITCHELL ACT, JOHN DAY MITIGATION, LOWER SNAKE RIVER COMPENSATION PLAN**
5. **WILD FISH POLICIES OF THE STATES**

#### **5 PURPOSES OF ARTIFICIAL PRODUCTION**

1. **AUGMENTATION – INCREASE HARVESTABLE NUMBERS OF FISH**
2. **MITIGATION – REPLACE OR COMPENSATE LOST HABITAT CAPACITY**
3. **RESTORATION – HASTEN REBUILDING OR REINTRODUCTION OF A POPULATION TO HARVESTABLE LEVELS**

4. **PRESERVATION/CONSERVATION – CONSERVE GENETIC RESOURCES OF FISH POPULATIONS**
5. **RESEARCH – HOW TO EFFECTIVELY USE ARTIFICIAL PRODUCTION TO ADDRESS THE OTHER PURPOSES**

### **10 ARTIFICIAL PRODUCTION POLICIES**

1. **THE MANNER OF USE AND THE VALUE OF ARTIFICIAL PRODUCTION MUST BE CONSIDERED IN THE CONTEXT OF THE ENVIRONMENT IN WHICH IT WILL BE USED**
2. **ARTIFICIAL PRODUCTION MUST BE IMPLEMENTED WITHIN AN EXPERIMENTAL, ADAPTIVE MANAGEMENT DESIGN ...**
3. **HATCHERIES MUST BE OPERATED IN A MANNER THAT RECOGNIZES THAT THEY EXIST WITHIN ECOLOGICAL SYSTEMS ...**
4. **A DIVERSITY OF LIFE HISTORY TYPES AND SPECIES NEEDS TO BE MAINTAINED IN ORDER TO SUSTAIN A SYSTEM OF POPULATIONS IN THE FACE OF ENVIRONMENTAL VARIATION**
5. **NATURALLY SELECTED POPULATIONS SHOULD PROVIDE THE MODEL FOR SUCCESSFUL ARTIFICIALLY REARED POPULATIONS ...**
6. **THE ENTITIES MANAGING AN ARTIFICIAL PRODUCTION FACILITY OR PROGRAM SHOULD EXPLICITLY IDENTIFY ... THE PURPOSE(S) FOR WHICH THE PRODUCT IS INTENDED**
7. **DECISIONS ON THE USE OF THE ARTIFICIAL PRODUCTION TOOL NEED TO BE MADE IN THE CONTEXT OF DECIDING ON FISH & WILDLIFE GOALS, OBJECTIVES AND STRATEGIES AT THE SUB-BASIN AND PROVINCE LEVELS**
8. **APPROPRIATE RISK MANAGEMENT NEEDS TO BE MAINTAINED IN USING THE TOOL OF ARTIFICIAL PROPAGATION**

9. PRODUCTION FOR HARVEST IS A LEGITIMATE MANAGEMENT OBJECTIVE OF ARTIFICIAL PRODUCTION ... BUT HARVEST RATES AND PRACTICES MUST BE DICTATED BY THE REQUIREMENTS TO SUSTAIN NATURALLY SPAWNING POPULATIONS
10. FEDERAL AND OTHER LEGAL MANDATES AND OBLIGATIONS FOR FISH PROTECTION, MITIGATION, AND ENHANCEMENT MUST BE FULLY ADDRESSED.

### REPORTS OF THE INDEPENDENT SCIENCE ADVISORY BOARD

“Review of Artificial Production of Anadromous and Resident Fish in the Columbia River Basin”, April 1999

“Review of the Draft Performance Standards and Indicators for Artificial Production in the Northwest Power Planning Council’s Artificial Production Review”, February 23, 2000

“Consistency of the Council’s Artificial Production Policies and Implementation Strategies with Multi-Species Framework Principles and Scientific Review Team Guidelines”, July 14, 2000

“Recommendations for the Design of Hatchery Monitoring Programs and the Organization of Data Systems”, October 3, 2000

### KEY FINDINGS OF

“Review of Artificial Production of Anadromous and Resident Fish in the Columbia River Basin”, April 1999

1. HATCHERIES GENERALLY HAVE FAILED TO MEET THEIR OBJECTIVES.
2. HATCHERIES HAVE IMPARTED ADVERSE EFFECTS ON NATURAL RESOURCES
3. MANAGERS HAVE FAILED TO EVALUATE HATCHERY PROGRAMS
4. RATIONALE JUSTIFYING HATCHERY PRODUCTION WAS BASED ON UNTESTED ASSUMPTIONS
5. SUPPLEMENTATION SHOULD BE LINKED WITH HABITAT IMPROVEMENT

6. GENETIC CONSIDERATIONS HAVE TO BE INCLUDED IN HATCHERY PROGRAMS
7. MORE RESEARCH AND EXPERIMENTAL APPROACHES ARE REQUIRED
8. STOCK TRANSFERS AND INTRODUCTIONS OF NON-NATIVE SPECIES SHOULD BE DISCONTINUED
9. ARTIFICIAL PRODUCTION SHOULD HAVE A NEW ROLE IN FISHERIES MANAGEMENT
10. HATCHERIES SHOULD BE USED AS TEMPORARY REFUGES, RATHER THAN FOR LONG-TERM PRODUCTION

**20 KEY GUIDELINES FROM**

**“Review of Artificial Production of Anadromous and Resident Fish in the Columbia River Basin”, April 1999**

1. TECHNOLOGY SHOULD BE DEVELOPED AND USED TO MORE CLOSELY RESEMBLE NATURAL INCUBATION AND REARING CONDITIONS IN SALMONID HATCHERY PROPAGATION
2. HATCHERY FACILITIES NEED TO BE DESIGNED AND ENGINEERED TO REPRESENT NATURAL INCUBATION AND REARING HABITAT...
3. NEW HATCHERY TECHNOLOGY FOR IMPROVING FISH QUALITY AND PERFORMANCE NEEDS TO HAVE A PLAN FOR IMPLEMENTATION ... TO ASSURE ITS APPLICATION
4. TO MIMIC NATURAL POPULATIONS, ANADROMOUS FISH HATCHERY PRODUCTION STRATEGY SHOULD TARGET NATURAL POPULATION PARAMETERS ... TO SYNCHRONIZE WITH ENVIRONMENTAL SELECTIVE FORCES ...
5. TO MIMIC NATURAL POPULATIONS, RESIDENT FISH HATCHERY PRODUCTION STRATEGY SHOULD TARGET POPULATION PARAMETERS ... TO CORRESPOND WITH ADEQUATE FOOD AVAILABILITY AND FAVORABLE PREY TO MAXIMIZE THEIR POST-STOCKING GROWTH AND SURVIVAL
6. SUPPLEMENTATION HATCHERY POLICY SHOULD UTILIZE AMBIENT NATAL STREAM HABITAT TEMPERATURES ...

7. **SALMONID HATCHERY INCUBATION AND REARING EXPERIENCES SHOULD USE THE NATAL STREAM WATER SOURCE WHENEVER POSSIBLE TO ENHANCE HOMESTREAM RECOGNITION**
8. **HATCHERY RELEASE STRATEGIES NEED TO FOLLOW STANDARDS THAT ACCOMMODATE REASONABLE NUMERICAL LIMITS DETERMINED BY THE CARRYING CAPACITY OF THE RECEIVING STREAM...**
9. **HATCHERY PROGRAMS SHOULD DEDICATE SIGNIFICANT EFFORT IN DEVELOPING SMALL FACILITIES FOR SPECIFIC STREAM SITES ...**
10. **GENETIC AND BREEDING PROTOCOLS CONSISTENT WITH LOCAL STOCK STRUCTURE NEED TO BE DEVELOPED AND FAITHFULLY ADHERED TO ...**
11. **HATCHERY PROPAGATION SHOULD USE LARGE BREEDING POPULATIONS TO MINIMIZE INBREEDING EFFECTS AND MAINTAIN WHAT GENETIC DIVERSITY IS PRESENT WITHIN THE POPULATION**
12. **HATCHERY SUPPLEMENTATION PROGRAMS SHOULD AVOID USING STRAYS IN BREEDING OPERATIONS ...**
13. **RESTORATION OF EXTIRPATED POPULATIONS SHOULD FOLLOW GENETIC GUIDELINES TO MAXIMIZE THE POTENTIAL FOR RE-ESTABLISHING SELF-SUSTAINING POPULATIONS ... ALLOWING SELECTION TO WORK BY DISCONTINUING INTRODUCTIONS**
14. **GERM PLASM REPOSITORIES SHOULD BE DEVELOPED ...FOR APPLICATION IN FUTURE RECOVERY ... AND TO MAINTAIN A GENE BANK TO REINFORCE DIVERSITY AMONG SMALL INBRED NATURAL POPULATIONS**
15. **THE PHYSICAL AND GENETIC STATUS OF ALL NATURAL POPULATIONS OF ANADROMOUS AND RESIDENT FISHES NEED TO BE UNDERSTOOD AND ROUTINELY REVIEWED**
16. **AN IN-HATCHERY FISH MONITORING PROGRAM NEEDS TO BE DEVELOPED ON PERFORMANCE OF JUVENILES UNDER CULTURE ... TO ASCERTAIN IF BREEDING PROTOCOL IS MAINTAINING WILD STOCK GENOTYPIC CHARACTERISTICS**
17. **A HATCHERY FISH MONITORING PROGRAM NEEDS TO BE DEVELOPED ON PERFORMANCE FROM RELEASE TO RETURN ...**
18. **A STUDY IS REQUIRED TO DETERMINE COST OF MONITORING HATCHERY PERFORMANCE AND SOURCES OF FUNDING**
19. **REGULAR PERFORMANCE AUDITS OF ARTIFICIAL PRODUCTION OBJECTIVES SHOULD BE UNDERTAKEN ...**

20. THE NPPC SHOULD APPOINT AN INDEPENDENT PEER REVIEW PANEL TO DEVELOP A BASINWIDE ARTIFICIAL PRODUCTION PROGRAM PLAN TO MEET ECOLOGICAL FRAMEWORK GOALS ...

**KEY RECOMMENDATIONS  
FROM**

**“Review of the Draft Performance Standards and Indicators for Artificial Production in the Northwest Power Planning Council’s Artificial Production Review”, February 23, 2000**

**EACH OF THE 5 PURPOSES OF ARTIFICIAL PRODUCTION REQUIRE A DIFFERENT SET OF PERFORMANCE STANDARDS AND INDICATORS**

**PERFORMANCE STANDARDS AND INDICATORS ARE NEEDED AT THE HATCHERY, SUB-BASIN, PROVINCE, AND BASINWIDE LEVELS**

**COULD BE 20 GENERIC SETS OF PERFORMANCE STANDARDS (5 PURPOSES X 4 HIERARCHIAL LEVELS), THEN MADE SPECIFIC TO EACH HATCHERY SITUATION**

**PROGRAMMATIC OBJECTIVES AND PERFORMANCE STANDARDS SHOULD BE INTEGRATED ACROSS THE 4 HIERARCHIAL LEVELS**

**KEY FINDINGS & RECOMMENDATIONS FROM**

**“Consistency of the Council’s Artificial Production Policies and Implementation Strategies with Multi-Species Framework Principles and Scientific Review Team Guidelines”, July 14, 2000**

**APR POLICIES WERE AN ENCOURAGING FIRST STEP ...PROPOSED IMPLEMENTATION PROCESS IS, HOWEVER, INADEQUATE**

**A COMPREHENSIVE BASIN-WIDE TAGGING PROGRAM FOR ARTIFICIALLY PROPAGATED FISH ... IS REQUIRED**

**PROGRAM OBJECTIVES IN THE FORM OF DESIRED ADULT RETURNS ARE NEEDED AT THE BASIN, PROVINCE, AND SUB-BASIN LEVELS**

**USE TAGGING PROGRAM TO DETERMINE REASONABLE NUMBERS OF HATCHERY SMOLT RELEASES BY PROVINCE AND SUB-BASIN**

**SUB-BASIN PLANS NEED AN INVENTORY OF LIFE HISTORY DIVERSITY ... USE IN BROOD STOCK MANAGEMENT**

**ENVIRONMENTAL CONDITIONS OUTSIDE THE HATCHERY MAY BE LIMITING TOTAL ABUNDANCE**

**REFORM MEASURES WERE QUALIFIED; REFORM CAN ONLY BE ACCOMPLISHED IF THE SPECIFIC PRACTICES THAT NEED REFORM ARE IDENTIFIED**

**NEED TO CORRECT THE PROBLEM OF INADEQUATE MONITORING**

**HATCHERY & GENETIC MANAGEMENT PLANS NEED TO STRESS ANY NON-NORMATIVE PRACTICES**

**IN DEVELOPING HATCHERY PLANS, NEED TO DESCRIBE BIOLOGICAL PREMISES AND LIMITING FACTORS – AND SUMMARIZE EVIDENCE SUPPORTING THESE ASSUMPTIONS**

**NEED ADDITIONAL GUIDANCE FOR MANAGERS ON DESIGNING ADAPTIVE MANAGEMENT EXPERIMENTS, INTEGRATING ARTIFICIAL PRODUCTION INTO SUBBASIN PLANNING, CONDUCTING RISK ANALYSIS, AND DEVELOPING HARVEST PLANS**

**ESTABLISH ESCAPEMENT TARGETS FOR NATURALLY SPAWNING POPULATIONS AND ENSURE THEY ARE MET – ADOPT “MINIMUM SUSTAINABLE ESCAPEMENT” IN FISHERIES MANAGEMENT**

### **KEY RECOMMENDATIONS FROM**

**“Recommendations for the Design of Hatchery Monitoring Programs and the Organization of Data Systems”, October 3, 2000**

**MONITORING IS NECESSARY TO ASSURE COMPLIANCE WITH PERFORMANCE STANDARDS AND PROVIDE A SCIENTIFIC BASIS FOR JUDGING AND PROPOSING REFORMS IN FISH HUSBANDRY PRACTICES**

**NEED TO GATHER 3 TYPES OF INFORMATION**

- 1. DETAILS ON CULTURAL PRACTICES INSIDE THE HATCHERY**
- 2. WHAT HAPPENS TO HATCHERY FISH AFTER RELEASE**
- 3. EFFECTS OF HATCHERY FISH ON WILD AND OTHER HATCHERY FISH OUTSIDE THE HATCHERY**

**TAGGING AND SAMPLING MUST BE SUFFICIENT TO ESTIMATE “SAR” FOR EACH STOCK AT EACH RELEASE LOCATION**

**NEED A COMPREHENSIVE EXPERIMENTAL DESIGN FOR DATA COLLECTION IN THE BASIN – ADDRESS AT INSTITUTIONAL LEVEL**

**USE “DNA FINGERPRINTING” TECHNOLOGY TO EVALUATE EFFECTS OF SUPPLEMENTATION**

**NO NEED TO CENTRALIZE DATA STORAGE AND RETRIEVAL – USE INTERNET LINKS TO MODULAR SITES**

**THE DELIVERY OF DATA IN SUITABLE FORM SHOULD BE A CONTRACTING REQUIREMENT**

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### **NWPPC Artificial Production Advisory Committee**

# Section 9B.

# Facility and Program Evaluation

## Phase II

# Discussion of Phase II Facility / Program Purpose Review and Evaluation

## Conclusions from Phase I Evaluations

The Phase I reports will conclude as to each program's alignment of mandate, purpose, and critical operations. This information will be provided to fishery managers, sub-basin planners, NMFS/USFWS, and the Northwest Power Planning Council.

The information will be used to scope and prioritize the Phase II Review and Evaluation as production programs will be preliminarily categorized as "**Aligned**", "**Unaligned**", or "**Partially Aligned**" or **not sure**. Report conclusions will also aid the above entities in focusing their planning, funding and regulatory responsibilities to ensure alignment of production programs with current policies and fishery management realities.

Phase I will provide the context for further analysis.

## Phase II Evaluation Issues

Phase II is an optimization analysis

Phase II will apply specific effort in each functional experience area (Science/ genetics, Fish culture practices, Fisheries / harvest management, Economics / budget).

Scope / Effort may vary per facility and/ or program based on the Phase I evaluation. Phase II is a refinement of Phase I questions but will pursue a more in depth analysis on a case by case basis of the questions in the Phase I template (PSI 3.1 -3.6) and look specifically at PSI 3.7 Operation of Artificial Production Facilities and 3.8 Socio Economic effectiveness.

Some facilities and/or programs may not require further in-depth evaluation. Facility and/or programs that are not aligned or partially aligned may require much more detailed effort.

Schedule will be prioritized according to needs.

This is an optimization analysis that will show alternatives for "best uses" of programs in specific Subbasins.

## Results of Phase II

**Evaluation level will address enough issues to recommend whether the program still makes sense today in context of the current ecological, social, economic environment.**

**Whether or not goals and objectives are established for a facility Phase II evaluation will provide information to decision makers and planners for what makes sense.**

**A prioritization method (sorting process) will be provided for recommended actions or a logical sequence for change.**

**Changes needed for program alignment categorized by area / sub area (Performance Standards and Indicator areas)**

- Planning and Construction Implementation
- Operations and Maintenance
- Monitoring and Evaluation
- Research

**Alternatives for Facility / program alignment**

- Potential options or alternatives to address alignment problems

**Logical timelines to support implementation of changes linked to;**

- Budget cycles (provincial reviews)
- Subbasin planning
- Permitting compliance
- Biological issues

**Information and data from Phase I and II will be provided in a form and manner to support needs of Managers and other requirements and processes (HGMP's, etc.).**

**Will provide a budget for changes.**

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JR.  
"Larry"  
CHAIRMAN  
Washington

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October 10, 2001

### Artificial Production Advisory Committee (APAC)

Date: October 10, 2001

Place: Portland, Oregon

Time: 9AM - 4:00 PM

### Artificial Production Advisory Committee (Anadromous Workshop) October 10, 2001 Meeting Attendance

	Name	In Attendance October 10, 2001
Northwest Power Planning Council	Bruce Suzumoto, Dan Warren	Present Present
Columbia Basin Fish and Wildlife Authority	Brian Allee Neil Ward	Present Not Present
Confederated Tribes of the Colville Reservation	Joe Peone Jerry Marco	Not Present Not Present
Spokane Tribes of Indians	Keith Underwood	Not Present
Kalispel Tribe of Indians	Joe Maroney	Not Present
Kootenai Tribe	Sue Ireland	Not Present
Coeur d'Alene Tribe	Ronald Peters	Not Present
Nez Perce Tribe	Ed Larson	Not Present
Confederated Tribes of the Umatilla Indian Reservation	Brian Zimmerman	Present by Phone
Confederated Tribes of the Warm Springs Reservation of Oregon	Bob Spateholts Patty O'Toole	Not Present Present by Phone
Yakama Nation	Tom Scribner	Present
Shoshone-Bannock Tribes of the Fort Hall Reservation	Chad Colter	Not Present
Shoshone-Paiute Tribes of the Duck Valley Reservation	Guy Dodson, Sr.	Not Present
Columbia River Inter-Tribal Fish Commission	Doug Dompier	Not Present
Upper Columbia United Tribes	Bill Wiles	Not Present
Bonneville Power Administration	Jeff Gislason	Present
National Marine Fisheries Service	Bob Foster Larry Rutter	Present Present
U.S. Fish and Wildlife Service	Lee Hillwig	Present

Idaho Department of Fish and Game	Tom Rogers	Not Present
Oregon Department of Fish and Wildlife	Trent Stickell George Nandor	Not Present Present
Washington Department of Fish and Wildlife	Chuck Johnson	Present
Montana Department of Fish, Wildlife and Parks	Gary Bertellotti	Not Present
Chelan PUD	Steve Hayes Dick Nason	Not Present Present
Grant County PUD	Stuart Hammond	Present
Native Fish Society	Bill Bakke	Not Present
Contractor	Steve Smith	Present
Oregon State University	Ian Fleming	Present

Also Attending: Rob Walton, Public Power Council