

FRANK L. CASSIDY  
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## NORTHWEST POWER PLANNING COUNCIL

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VICE CHAIRMAN  
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John Brogoitti  
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Stan Grace  
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Montana

October 5, 2001

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

Dear Artificial Production Advisory Committee Member:

As previously announced, the fourth Artificial Production Advisory Committee (APAC) meeting (Resident Fish Workgroup) will be held, Tuesday, October 16, 2001 starting at 8:00 AM and ending at about 2:00 to 3:00 PM. The specific end time to this meeting will be coordinated at the meeting with Neil Ward due to integrating the APAC meeting with CBFWA's resident fish meeting. The meeting will be located at:

### **Red Lion Hotel**

621 21st Street  
Lewiston, ID 83501  
208-799-1000

Conference 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 16, 2001.

Sincerely,

Bruce Suzumoto

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**NWPPC Artificial Production Advisory  
Committee  
Resident Fish Workgroup**

**Date:  
Tuesday October 16, 2001  
8:00 AM to 2:00 PM**

**Location:  
Red Lion Hotel  
621 21st Street  
Lewiston, ID 83501  
208-799-1000**

**Meeting Packet**

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**NWPPC Artificial Production Advisory Committee  
Resident Fish Workgroup  
Date: October 16, 2001  
Meeting Packet Contents**

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<b>1</b>	<b>General Introduction</b> Committee Purpose Review for New Meeting Attendees Overview of Integration Issues for New Meeting Attendees	<b>1-8</b>
<b>2</b>	<b>Members Introduction (Self re-introduction and other members )</b>	<b>9-10</b>
<b>3</b>	<b>Administrative Issues and Questions</b> Minutes and Attachments from last meeting	<b>11-27</b>
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<b>5</b>	<b>Current Schedule and Workplan Update</b> Key Issues and Current Status	<b>29-30</b>
<b>6</b>	<b>Status of HGMP's (USFWS)</b>	<b>(Insert)</b>
<b>7</b>	<b>Data and Information Needs</b>	<b>31</b>
<b>8</b>	<b>Facility and Program Evaluation (Phase I and II)</b>	<b>32-33</b>
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### **NWPPC Artificial Production Advisory Committee**

# Section 1.

## General Introduction

### Review for New Attendees

# **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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# **Facility / Program Evaluation Discussion Outline (Review for New Resident Fish Committee Attendees)**

## **I. Goals and Deliverables**

A coordinated artificial production plan with a clear set of objectives and a prioritized strategy or method for implementation of APR principals.

### **Evaluation Deliverables (For approximately 120 programs):**

- A consolidated multi - agency and tribe review of artificial production in the Columbia Basin. (Phase I)
- A progress report to decision makers on the status of Columbia Basin artificial production reform. (Phase I)
- A determination of whether programs match stated APR purpose and alignment of key protocols and operations with that purpose.
- An evaluation whether program is consistent with legal, policy and scientific criteria.
- An examination of operational costs, production and adult return information.
- Recommend interim changes.
- Preliminary basin wide budget/costs to implement interim changes and future costs including implementing improvements from IHOT, HGMPS AND M&E programs for appropriate production programs.
- Consolidated, accurate, current information and data made available in a manner that provides fisheries manager's, planners and decision makers a tool to support and meet other regulatory, planning and decision making needs and requirements.

### **Uses of Evaluations**

- A budgeting tool for decision makers.
- Information for funding processes such as determining cost estimates for implementing ESA compliance requirements at appropriate production programs.
- Information for subbasin planning processes. Guidance on use of artificial production to meet subbasin and regional objectives.
- Information to put programs into a regional context.
- Information and data to determine whether facilities and programs should be kept the same, changed or shut down.
- Consolidated data and information from existing and past processes to aid managers with existing processes and requirements.
- Determining the adequacy of production programs for funding of ESA and APR reforms and capital improvements.

## **Potential Relationships to On-going Processes**

**Sub-Basin/Recovery Planning** - Provide basic artificial production information in a regional context to planners for use in developing or completing sub-basin plans. The Review would indicate if a given sub-basin's artificial production programs are consistent with ESA and APR policies. Documentation of policy inconsistencies, program strengths and weaknesses, and funding needs would assist planners with integrating artificial production programs in their plans.

**ESA Compliance** – The review would provide important information to NMFS, Federal agencies, and the region on the status of hatchery program compliance with the ESA and progress in achieving completed HGMPs.

**FCRPS BiOp** – The review would provide key information for prioritizing funding and development for existing processes. The region's progress in reducing the adverse impacts of poor hatchery programs on ESA-listed stocks is key to the results/crediting needed for the FCRPS BiOp.

**HGMPs** – The review could provide alerts to program managers, NMFS and the Councils about which production programs will need significant alteration during development of their HGMP

**Rolling Provincial Reviews** – The review would provide a tool to prioritize which production programs are priorities for funding to meet program purpose, regulatory requirements and other needs.

## **II. Issues to Consider**

### **Clear objectives and questions to be answered?**

1. Is the program meeting its stated purpose and program goals?
2. Is the program in alignment with current legal/policy requirements and existing plans?
3. Is the program adversely impacting other fish?
4. Does the current program purpose still make sense today?

**What is lacking from previous evaluations that has not clearly led to implementation of artificial production reforms.**

**Evaluation must identify issues in a fashion that will be detailed enough to assure plans can be developed for change?**

**Evaluation must provide enough information to assure that all programs and facilities can be aligned in a subbasin / provincial and regional basis with a “shared vision”.**

**Evaluation must assure that there is a usable baseline that is provided to regional planners.**

**Evaluation must involve and fund managers in the effort.**

**Scientific review of the evaluation will be completed before start. Joint ISAB / ISRP consultation**

**How do you assure that competing strategies are identified? Aligned strategies for Bonneville funding.**

**A budget for reform must be identified**

**Evaluation must be an implementation tool that makes sense on a regional basis. Must provide decision makers a logical approach when evaluating funding requests.**

**III. Specific areas of artificial production that review will incorporate**

**Cost estimation**

**Science / Genetics**

**Fish culture practices**

**Fisheries / Harvest practices**

**Economics / budget**

**IV. Incorporate all valid, current, existing information sources that will contribute to evaluation goals**

**Clear uses of valid IHOT information**

**Clear uses of other valid information**

**PSI (Incorporates ISAB review, PRC, APR, SRT, Fish Health)**

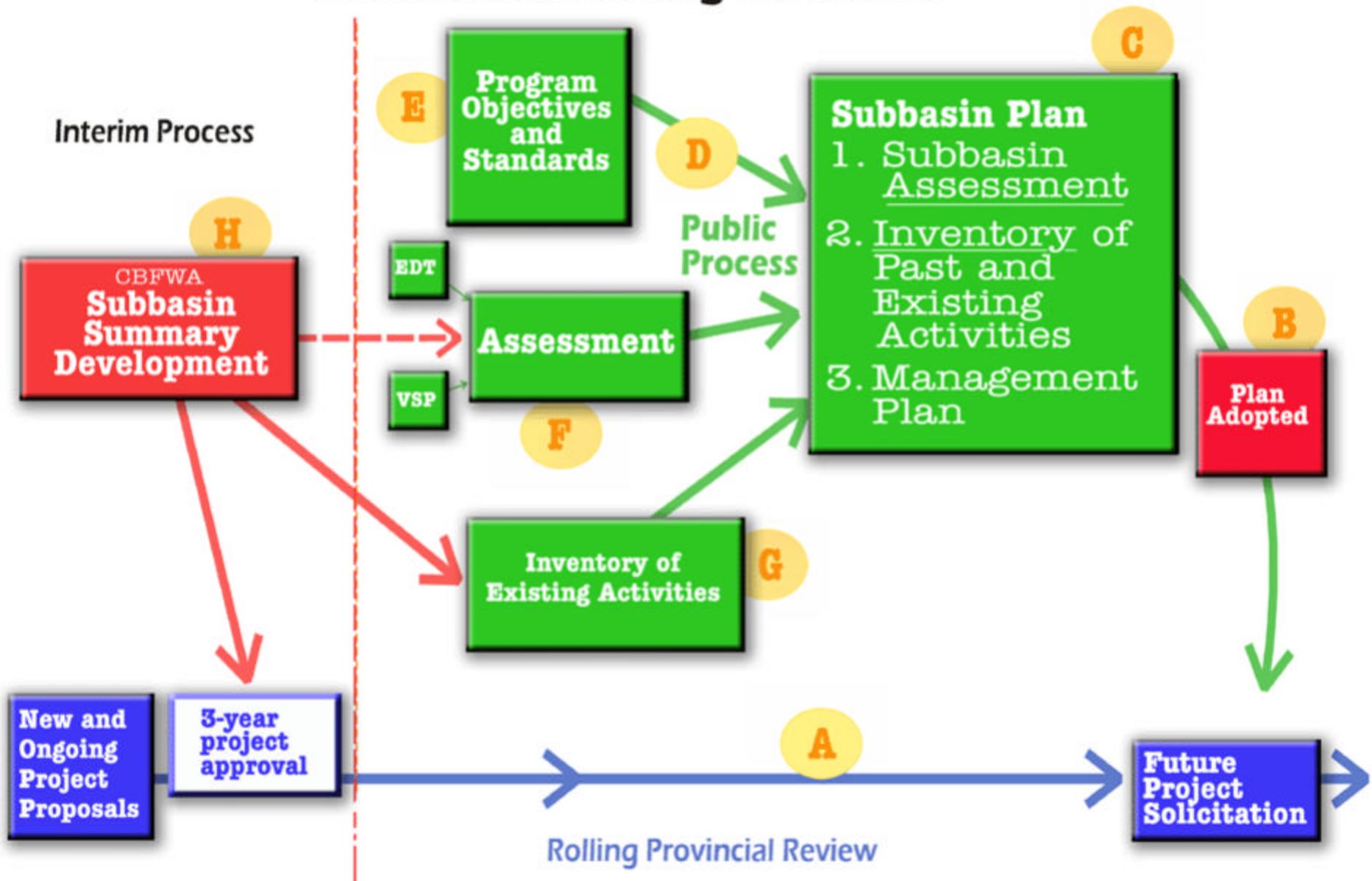
**HGMP's**

**Other**

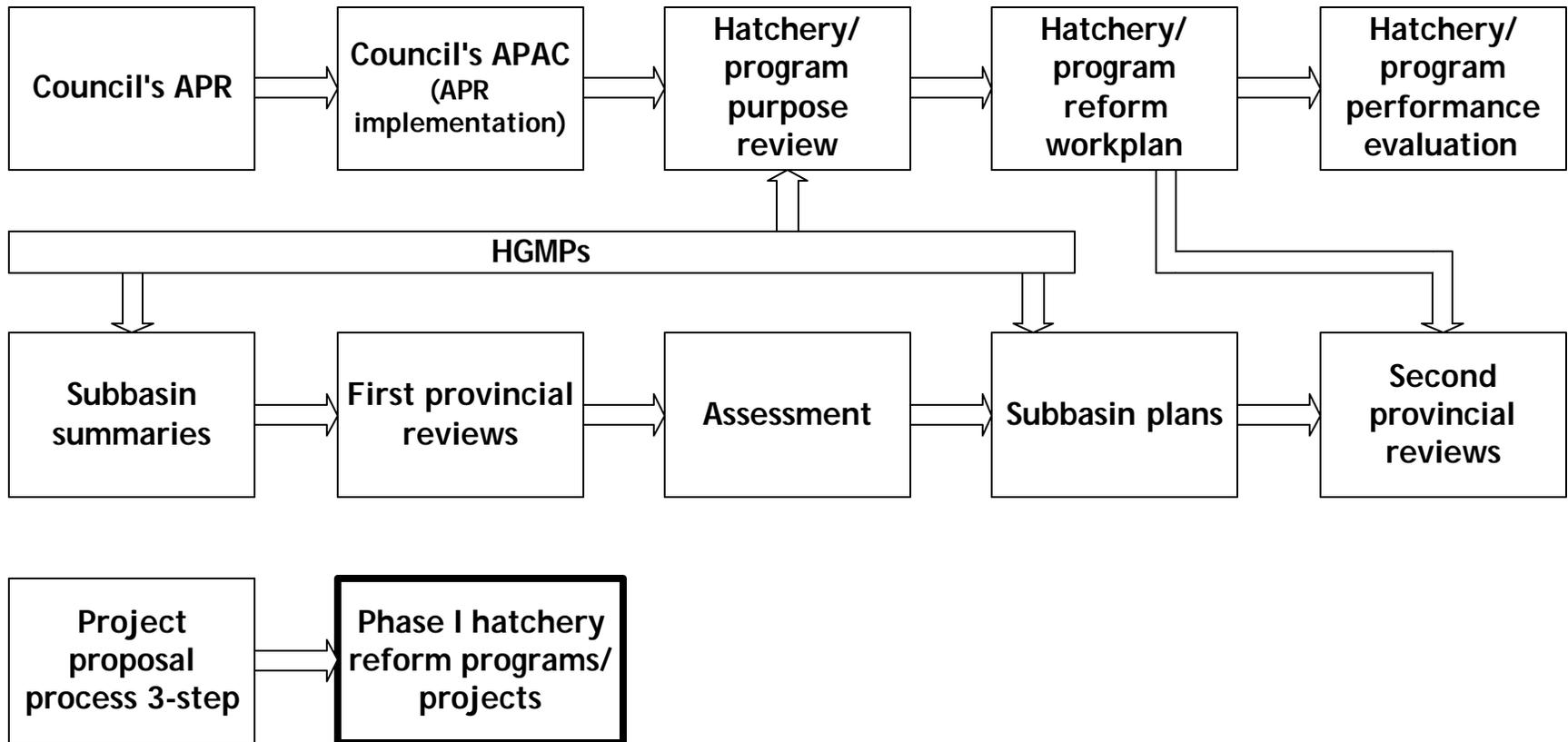
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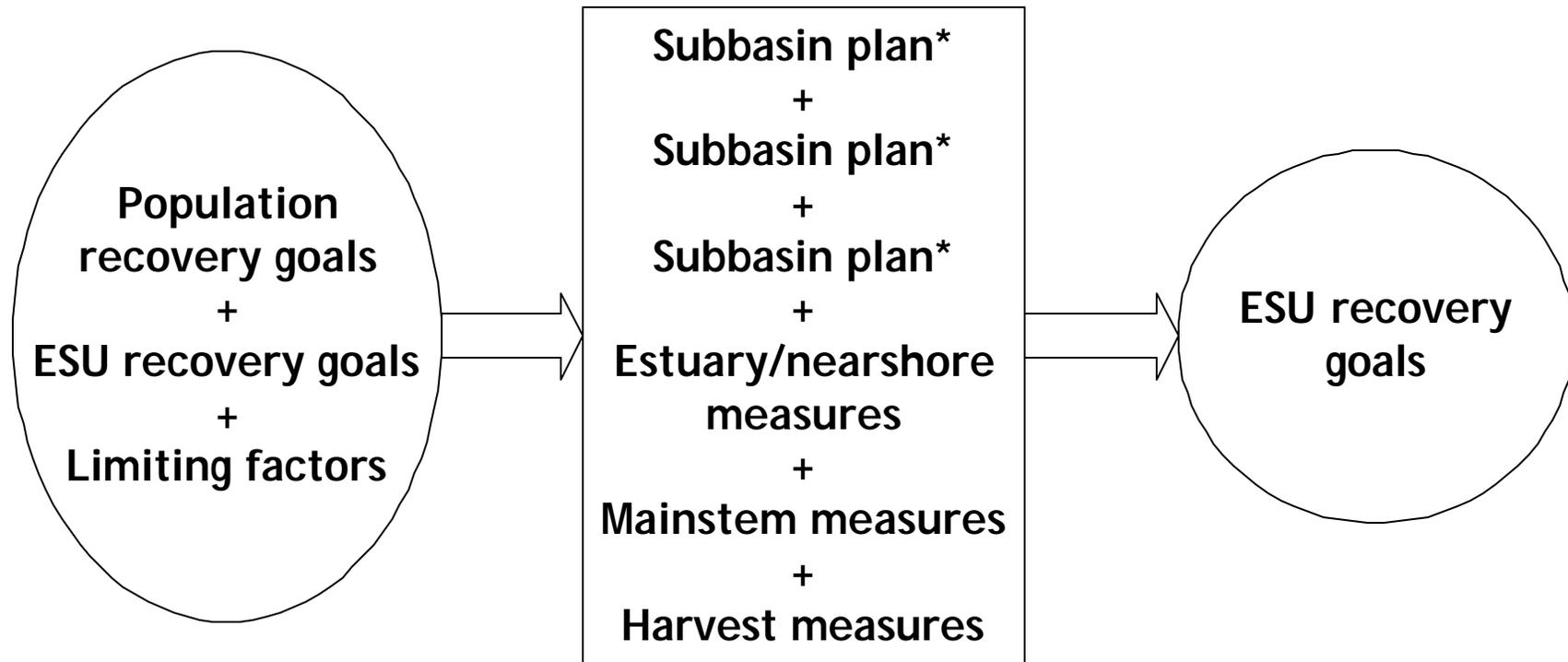
# Subbasin Planning Overview



## Council project approval process

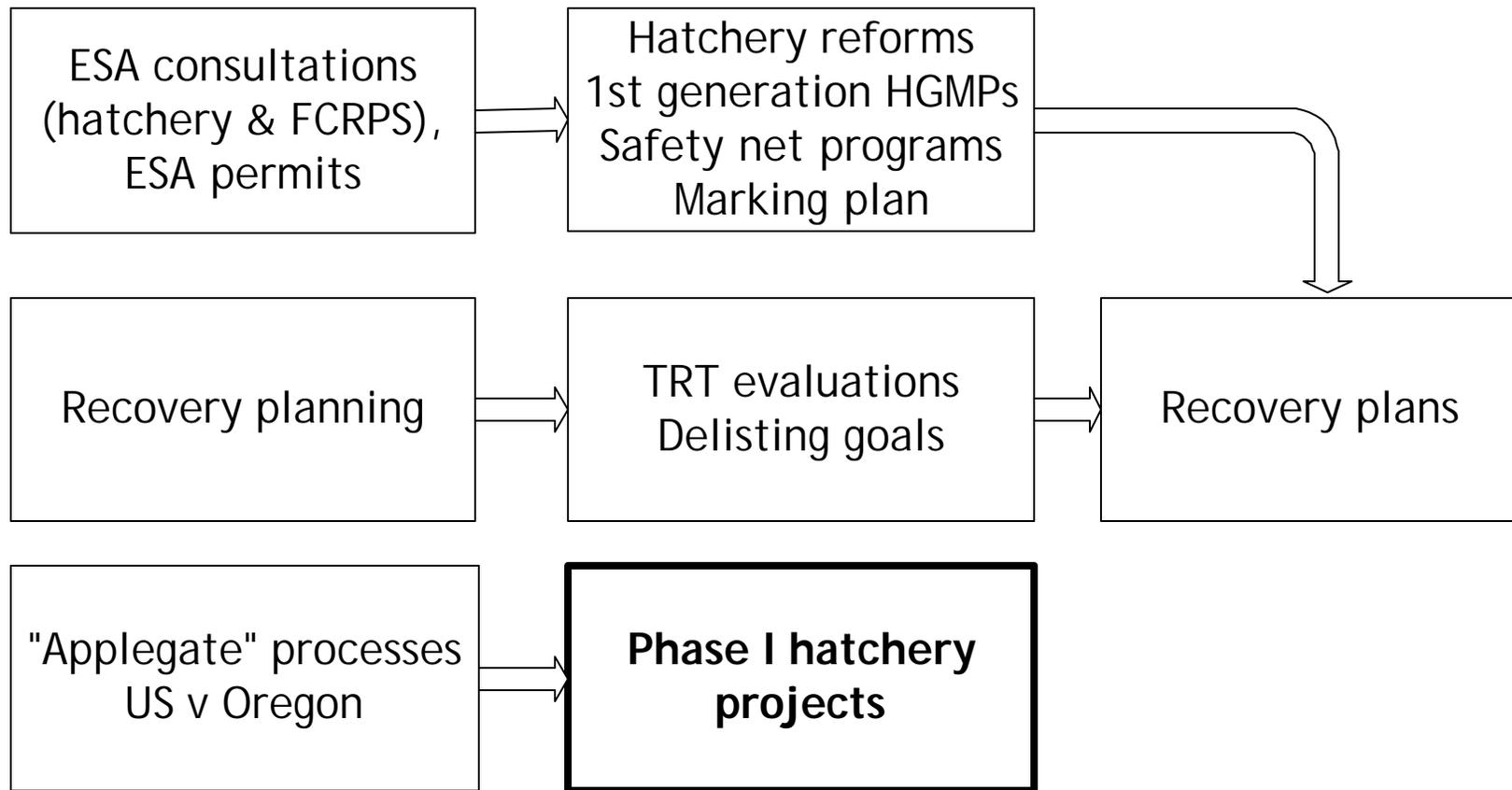


## NMFS Recovery Plan components

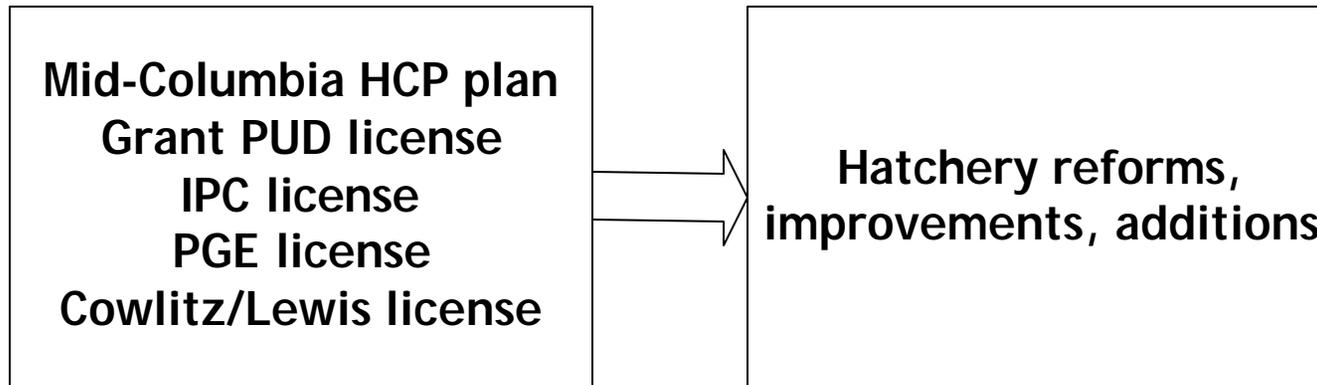


\* Assumes subbasin plans will include primarily habitat and hatchery measures

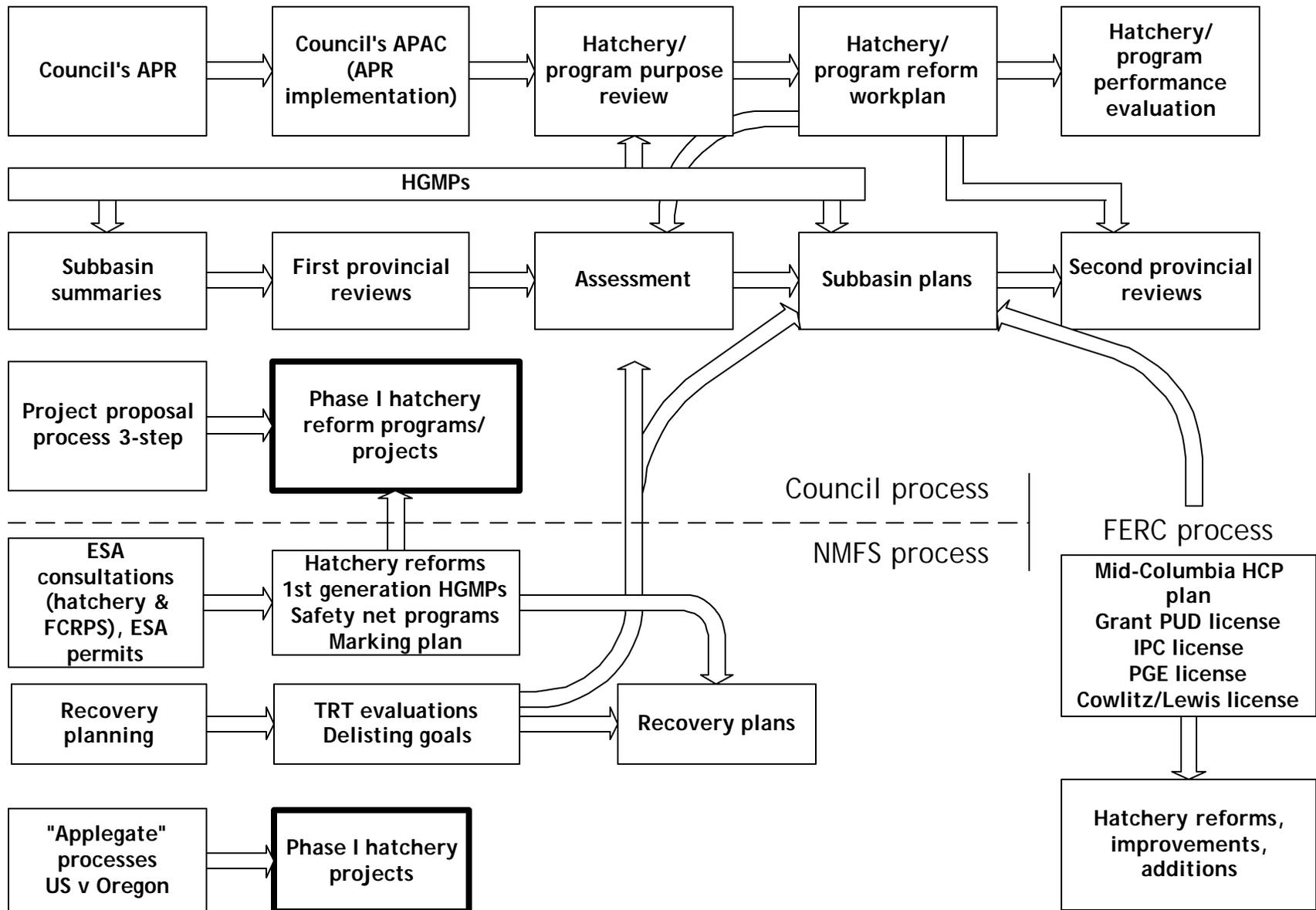
## NMFS process



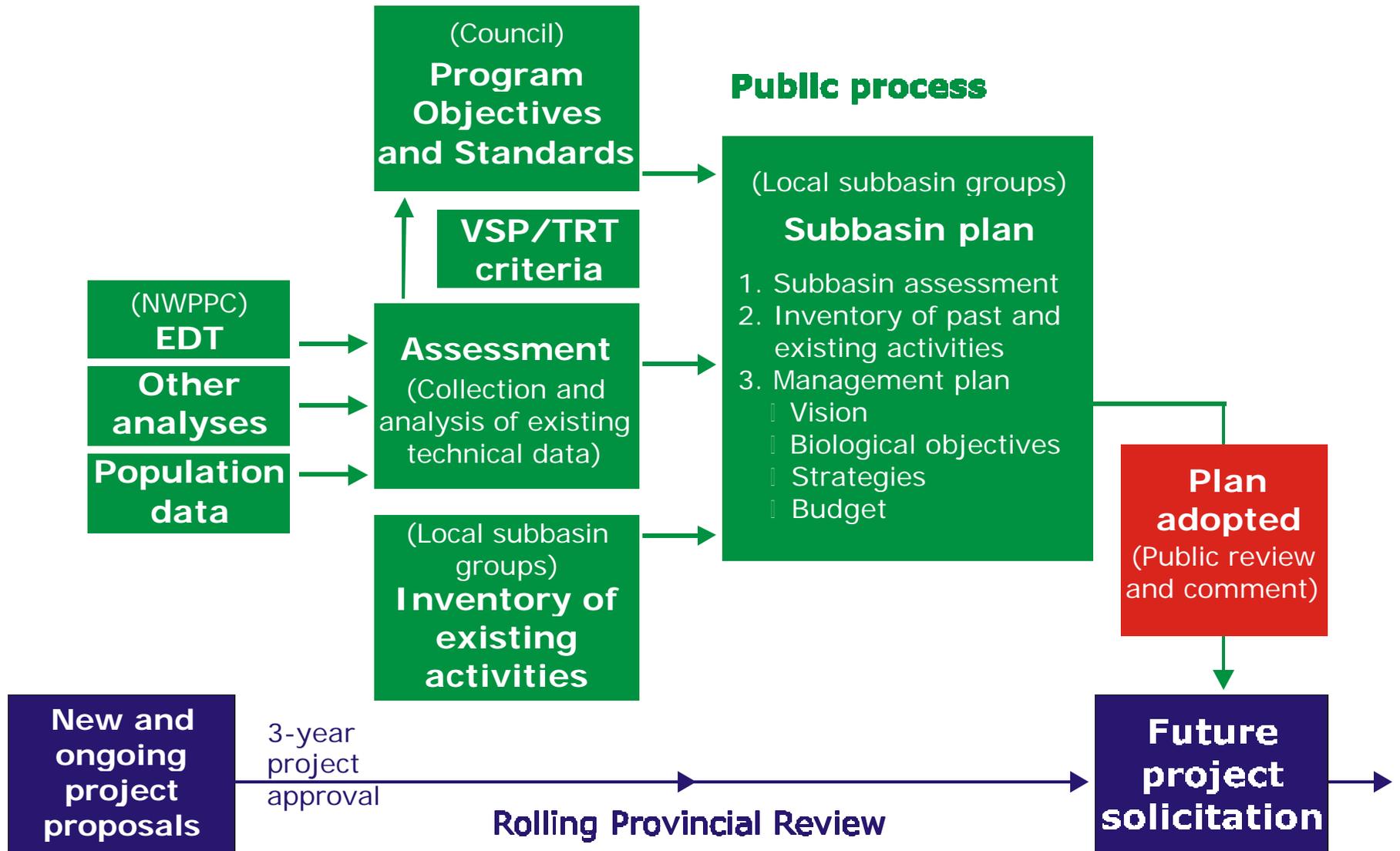
## FERC process



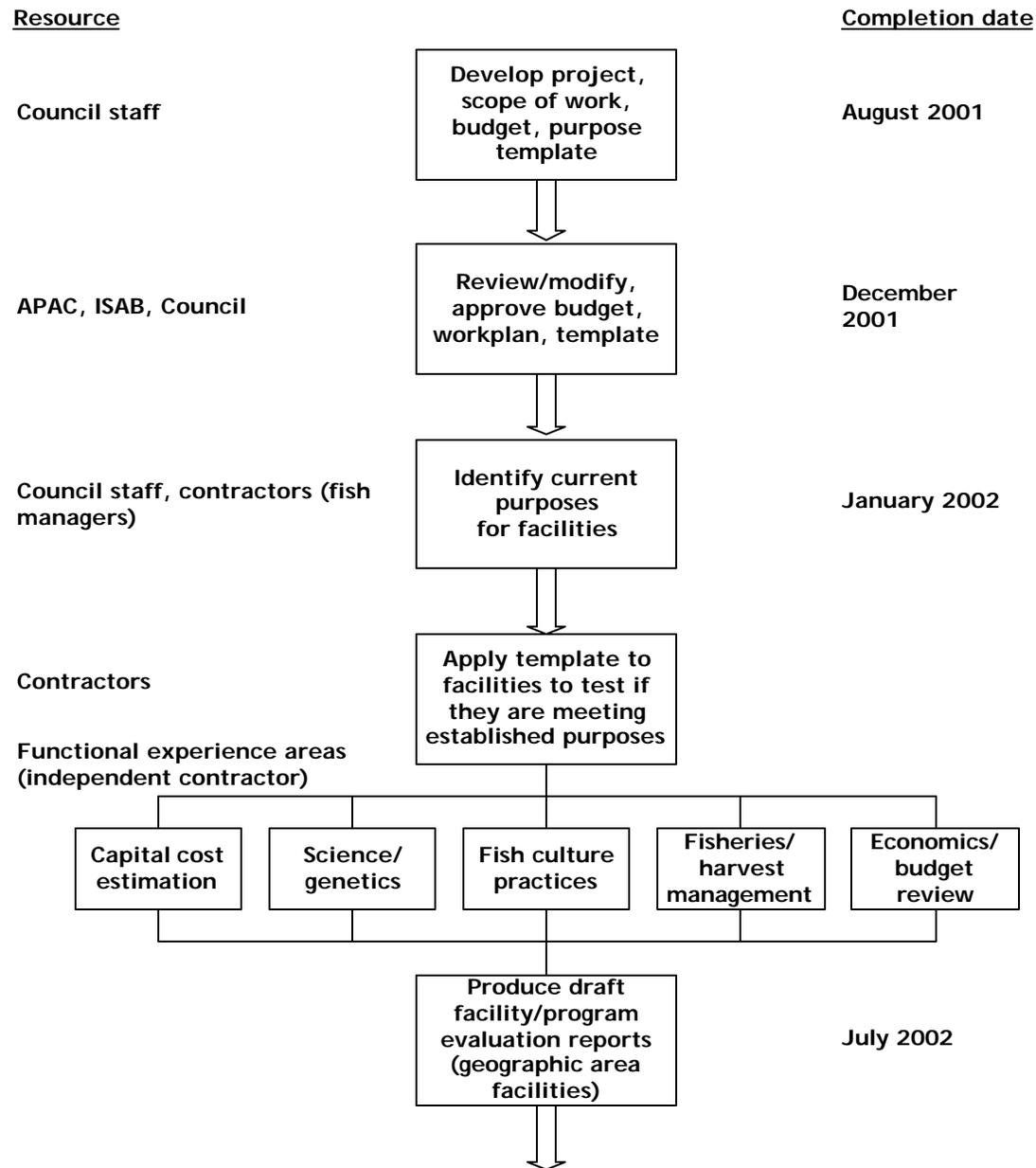
# Integrated processes



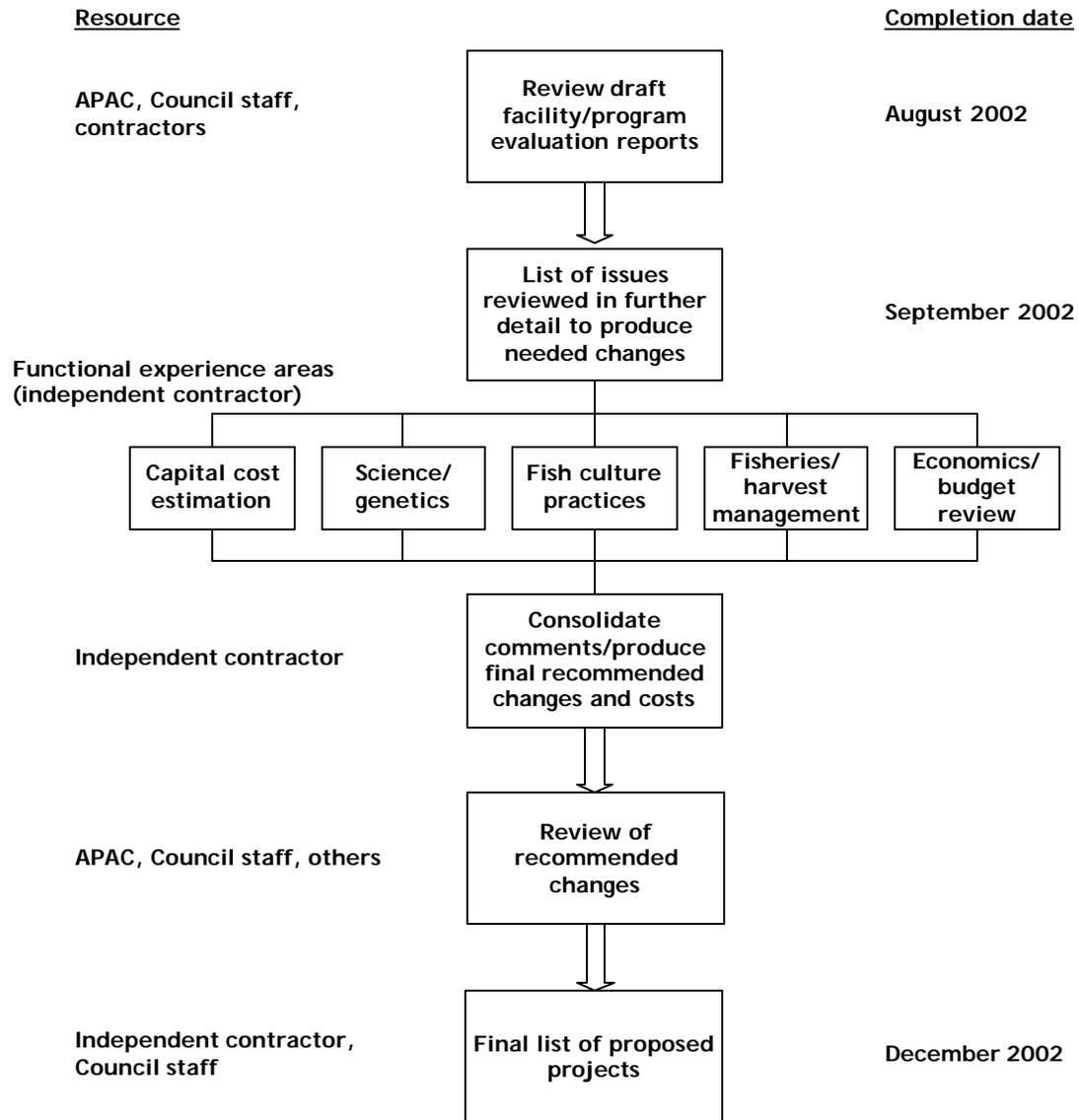
# Integrated Subbasin Planning Overview



## Artificial production facility/ Program purpose and hatchery workplan



## Artificial production facility/ Program purpose and hatchery workplan



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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> <b>Mark Fritsch</b> <b>Dan Warren</b> <b>Kendra Phillips</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> <a href="mailto:mfritsch@nwppc.org">mfritsch@nwppc.org</a> <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> <a href="mailto:cctfish@mail.wsu.edu">cctfish@mail.wsu.edu</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: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</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	<b>Ed Larson</b>	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	<b>Bob Spateholts / Patty O'Toole</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> <a href="mailto:potoole@wstribe.org">potoole@wstribe.org</a>
Yakama Nation	<b>Tom Scribner</b>	4067 NE 23 <sup>rd</sup> Ave. Portland, OR 97212	503-331-9850	<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>Chuck Johnson</b>	600 Capitol Way N Olympia, WA 98501-1091	(360) 902-2653	<a href="mailto:Johnscwj@dfw.wa.gov">Johnscwj@dfw.wa.gov</a>
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 7 and 8, 2001 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, 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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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

### Meeting Deliverables

## Review of Key Deliverables for APAC

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**NWPPC Artificial Production Advisory Committee  
Draft Agenda for Work Session (Resident Fish Workgroup)**

**Date: October 16, 2001**

**Location: Red Lion Hotel  
621 21st Street  
Lewiston, ID 83501  
208-799-1000**

**Conference Number: 800-452-5170 pass code 2792**

Item No.	Subject	Time Period		Presenter(s)
		From	To	
1	<b>General Introduction</b> Review for New Meeting Attendees Overview of Integration Issues for New Meeting Attendees	8:00 AM		Bruce Suzumoto Dan Warren Brian Allee
2	<b>Members Introduction (Self re-introduction and other members )</b>			
3	<b>Administrative Issues and Questions</b> Minutes and Attachments from last meeting			Bruce Suzumoto
4	<b>Review Agenda</b>		8:45 AM	Bruce Suzumoto
5	<b>Review / Current Schedule and Workplan Update</b> Key Issues and Current Status	8:45 AM	9:00 AM	Dan Warren
6	<b>Status of HGMP's (USFWS)</b>	9:00 AM		Lee Hillwig
7	<b>Data and Information Needs</b>		10:00 AM	Dan Warren
8	<b>Work Session</b> Facility / Program Evaluation Template Phase I (Resident Fish)	10:00 AM	12:00 Noon	Bruce Suzumoto (Facilitate)
	<b>LUNCH</b>	12:00 Noon	1:00 PM	
	<b>Work Session</b> Facility / Program Evaluation Template Phase I and II (Resident Fish)	1:00 PM	1:30 PM	Bruce Suzumoto (Facilitate)
9	<b>Public Comment</b>	1:30 PM	1:45 PM	
10	<b>Next Meeting Time and Place / Final Wrap up / Other</b>	1:45 PM	2:00 PM	Bruce Suzumoto

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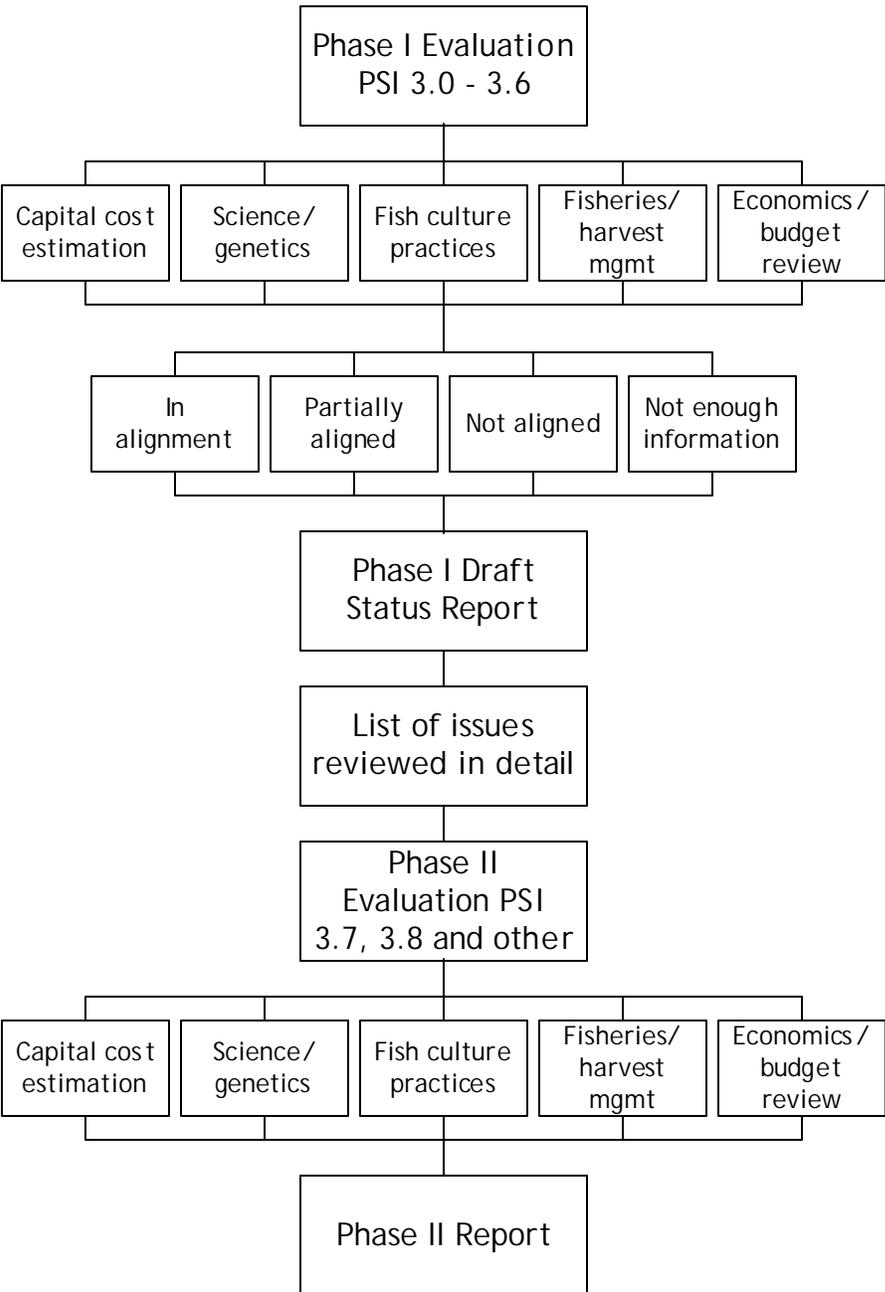
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### **NWPPC Artificial Production Advisory Committee**

# Section 5.

# Current Schedule and Workplan Update

# Artificial production facility/program evaluation

Data and info	Evaluation	Completion
<p>Collect base data and information</p> <p style="text-align: center;">↓</p> <p>Consolidate information</p>		Dec 2001
<p>On-going refinement as required by program status complexity problems</p> <p style="text-align: center;">↓</p>	 <pre> graph TD     P1[Phase I Evaluation PSI 3.0 - 3.6] --&gt; C1[Capital cost estimation]     P1 --&gt; C2[Science/genetics]     P1 --&gt; C3[Fish culture practices]     P1 --&gt; C4[Fisheries/harvest mgmt]     P1 --&gt; C5[Economics/budget review]     C1 --&gt; A1[In alignment]     C1 --&gt; A2[Partially aligned]     C1 --&gt; A3[Not aligned]     C1 --&gt; A4[Not enough information]     C2 --&gt; A1     C2 --&gt; A2     C2 --&gt; A3     C2 --&gt; A4     C3 --&gt; A1     C3 --&gt; A2     C3 --&gt; A3     C3 --&gt; A4     C4 --&gt; A1     C4 --&gt; A2     C4 --&gt; A3     C4 --&gt; A4     C5 --&gt; A1     C5 --&gt; A2     C5 --&gt; A3     C5 --&gt; A4     A1 --&gt; P1DR[Phase I Draft Status Report]     A2 --&gt; P1DR     A3 --&gt; P1DR     A4 --&gt; P1DR     P1DR --&gt; LIR[List of issues reviewed in detail]     LIR --&gt; P2[Phase II Evaluation PSI 3.7, 3.8 and other]     P2 --&gt; C6[Capital cost estimation]     P2 --&gt; C7[Science/genetics]     P2 --&gt; C8[Fish culture practices]     P2 --&gt; C9[Fisheries/harvest mgmt]     P2 --&gt; C10[Economics/budget review]     C6 --&gt; P2R[Phase II Report]     C7 --&gt; P2R     C8 --&gt; P2R     C9 --&gt; P2R     C10 --&gt; P2R     </pre>	<p style="text-align: right; vertical-align: middle;">July 2002</p> <p style="text-align: right; vertical-align: middle;">Aug 2002</p> <p style="text-align: right; vertical-align: bottom;">Dec 2002</p>

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

# Section 6.

## Status of HGMP's

(Insert Handouts from Lee Hillwig)

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

# Section 7

# 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 8.

# 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 8A.

## Phase I

October 4, 2001

**DRAFT**

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

**PART I – BACKGROUND INFORMATION**

**PROVINCE:**

**SUBBASIN:**

**HATCHERY FACILITY:**

**SPECIES/STOCK RELEASED:**

**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 need and 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 goals:*

- 1. Broodstock holding*
- 2. Broodstock survival*
- 3. Eggtake number*
- 4. Green egg to eyed egg survival*
- 5. Eyed egg to fry survival*
- 6. Fry to Release survival*
- 7. Release number*
- 8. Egg to Creel??*
- 9. 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.*

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

#### **AUGMENTATION PURPOSE**

Are numbers of 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/or contribution rates? (*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 any ESA procedures that limit the take of ESA-listed species? (*PS&I # 3.2.1*)

#### **MITIGATION PURPOSE**

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

Are brood stock taken from throughout the area of stocking? (*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 numbers of 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/or contribution rates? (*PS&I #3.2.2*)

#### **RESTORATION PURPOSE**

Does the program use local brood stock from the watershed(s) in which fish 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 area of stocking? (*PS&I # 3.4.1*)

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 fish production releases synchronized with availability of food and prey? (*SRT #5*)

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

Are numbers of fish released determined by estimated habitat carrying capacity of the receiving waters? (*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 fish 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 area of stocking? (*PS&I # 3.4.1*)

Are brood stock collection protocols consistent with the purpose?

Are sufficient numbers of fish marked to determine survival rates, escapement, and/or 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 fish production releases synchronized with availability of food and prey? (*SRT #5*)

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

#### RESEARCH PURPOSE

Are brood stock collection protocols consistent with the purpose?

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

Has the research been identified as a critical uncertainty?

**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.*

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

# Section 8B.

# 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.**

# HATCHERY AND GENETIC MANAGEMENT PLAN RESIDENT FISH VERSION (HGMP-RF)

---

Hatchery Program:

Species or Hatchery Population/Strain:

Agency/Operator:

Watershed and Region

Date Submitted:

Date Last Updated:

## **SECTION 1. GENERAL PROGRAM DESCRIPTION**

**1.1) Name of hatchery or program.**

**1.2) Species and population (or strain) under propagation, ESA/population status.** *State common and scientific names.*

**1.3) Responsible organization and individuals**  
*Indicate lead contact and on-site operations staff lead.*  
**Name (and title):**  
**Agency or Tribe:**  
**Address:**  
**Telephone:**  
**Fax:**  
**Email:**

**Other agencies, Tribes, co-operators, or organizations involved, including contractors, and extent of involvement in the program:**

**1.4) Funding source, staffing level, and annual hatchery program operational costs.**

**1.5) Location(s) of hatchery and associated facilities.**  
*Include name of stream, river kilometer, location, basin name, and state. Also include watershed code (e.g. WRIA number), or sufficient information for GIS entry. See "Instruction E" for guidance in responding.*

**1.6) Type of program(s).**  
*Define as either: Integrated Recovery; Integrated Harvest; Isolated Recovery; or Isolated Harvest (see Attachment 1 - Definitions" section for guidance).*

**1.7) Purpose (Goal) of program(s).**  
*Define as either: Augmentation, Mitigation, Restoration, Preservation/Conservation, or Research (for Columbia Basin programs, use NPPC document 99-15 for guidance in providing these definitions of "Purpose"). Provide a one sentence statement of the goal of the program, consistent with the term selected and the response to Section 1.6. Example: "The goal of this program is the restoration of white sturgeon in the Kootenai River using the indigenous population."*

**1.8) Justification for the program.**  
*Indicate why the hatchery program is needed and how it will enhance or benefit the*

*survival of the listed population (integrated or isolated recovery programs), or how the program will be operated to provide fish for harvest while minimizing adverse effects on listed fish (integrated or isolated harvest programs).*

**1.9) List of program “Performance Standards.”**

*“Performance Standards” are designed to achieve the program goal/purpose, and are generally measurable, realistic, and time specific. The NPPC “Artificial Production Review” document attached with the instructions for completing the HGMP presents a list of draft “Performance Standards” as examples of standards that could be applied for a hatchery program. If a subbasin plan including your hatchery program is available, use the performance standard list already compiled.*

*Example: “ (1) Conserve the genetic and life history diversity of westslope cutthroat trout populations in the Coeur d’Alene Basin through a x-year duration captive broodstock program; (2) Augment, restore and create viable naturally spawning populations using supplementation and reintroduction strategies; (3) Provide fish to satisfy legally mandated harvest in a manner which minimizes the risk of adverse effects to listed wild populations; (4)... ”*

**1.10) List of program “Performance Indicators”, designated by "benefits" and "risks."**

*“Performance Indicators” determine the degree that program standards have been achieved, and indicate the specific parameters to be monitored and evaluated. Adequate monitoring and evaluation must exist to detect and evaluate the success of the hatchery program and any risks to or impairment of recovery of affected, listed fish populations.*

*The NPPC “Artificial Production Review” document referenced above presents a list of draft “Performance Indicators” that, when linked with the appropriate performance standard, stand as examples of indicators that could be applied for the hatchery program. If a subbasin plan is available, use the performance indicator list already compiled. Essential “Performance Indicators” that should be included are monitoring and evaluation of overall fishery contribution and survival rates, stray rates, and divergence of hatchery fish morphological and behavioral characteristics from natural populations.*

*The list of “Performance Indicators” should be separated into two categories: "benefits" that the hatchery program will provide to the listed resident fish species, or in meeting harvest objectives while protecting listed resident fish species; and "risks" to listed resident fish species that may be posed by the hatchery program, including indicators that respond to uncertainties regarding program effects associated with a lack of data.*

**1.10.1) “Performance Indicators” addressing benefits.**

(e.g., “Evaluate fingerling-to-adult return rates for program fish to harvest, hatchery broodstock, and natural spawning.”)

**1.10.2) “Performance Indicators” addressing risks.**

(e.g., “Evaluate predation effects on listed fish resulting from hatchery fish releases.”)

**1.11) Expected size of program.**

*In responding to the two elements below, take into account the potential for increased fish production that may result from increased fish survival rates effected by improvements in hatchery rearing methods, or in the productivity of fish habitat.*

**1.11.1) Proposed annual broodstock need (maximum number of fish).**

**1.11.2) Proposed annual fish release levels (maximum number) by life stage and location.** *(Use standardized life stage definitions by species presented in Attachment 2.)*

Life Stage	Release Location	Annual Release Level
Eyed Eggs		
Unfed Fry		
Fry		
Fingerling		
Yearling		

**1.12) Current program performance, including estimated survival rates, adult production levels, and escapement levels. Indicate the source of these data.**

*Provide data (e.g., CPUE, condition factors) available for the most recent twelve years), or for the number of years of available and dependable information. Indicate program goals for these parameters.*

**1.13) Date program started (years in operation), or is expected to start.**

**1.14) Expected duration of program.**

Duration must be consistent with stated purpose. Refer to Table 1 in the APR for guidance.

**1.15) Watersheds targeted by program.**

*Include HUC field for desired watershed.*

- 1.16) **Indicate alternative actions considered for attaining program goals, and reasons why those actions are not being proposed.**

## **SECTION 2. RELATIONSHIP OF PROGRAM TO OTHER MANAGEMENT OBJECTIVES**

- 2.1) **Describe alignment of the hatchery program with other hatchery plans and policies (e.g., the NPPC *Annual Production Review Report and Recommendations* - NPPC document 99-15). Explain any proposed deviations from the plan or policies.**  
*(e.g. "The hatchery program will be operated consistent with the subbasin e plan, with the exception of age class at release. Fish will be released as age-1 rather than as fingerlings as specified in the subbasin plan, to maximize survival rates given extremely low recruitment rates the past four years.")*
- 2.2) **List all existing cooperative agreements, memoranda of understanding, memoranda of agreement, or other management plans or court orders under which program operates. Indicate whether this HGMP is consistent with these plans and commitments, and explain any discrepancies.**
- 2.3) **Relationship to harvest objectives.**  
*Explain whether artificial production and harvest management have been integrated to provide as many benefits and as few biological risks. For example, reference any harvest plan that describes measures applied to integrate the program with harvest management.*
- 2.3.1) **Describe fisheries benefiting from the program, and indicate harvest levels and rates for program-origin fish for the last 12 years (1988-99), if available. Also provide estimated future harvest rates on fish propagated by the program, and on listed fish that may be taken while harvesting program fish.**
- 2.4) **Relationship to habitat protection and purposes of artificial production.**  
*Describe the major factors affecting natural production (if known). Describe any habitat protection efforts, and expected natural production benefits over the short- and long-term. For Columbia Basin programs, use NPPC document 99-15, section II.C. as guidance in indicating program linkage with assumptions regarding habitat conditions.*
- 2.5) **Ecological interactions.**  
*Describe all species that could (1) negatively impact program; (2) be negatively impacted by program; (3) positively impact program; and (4) be positively impacted by program.*

### **SECTION 3. WATER SOURCE**

- 3.1) Provide a quantitative and narrative description of the water source (spring, well, surface), water quality profile, and natural limitations to production attributable to the water source.**

*For integrated programs, identify any differences between hatchery water and source, and “natal” water used by the naturally spawning population. Also, describe any methods applied in the hatchery that affect water temperature regimes or quality.*

- 3.2) Indicate any appropriate risk aversion measures that will be applied to minimize the likelihood for the take of listed species as a result of hatchery water withdrawal, screening, or effluent discharge.**

*(e.g., “Hatchery intake screens conform with NMFS and USFWS screening guidelines to minimize the risk of entrainment of listed species.”)*

*Include information on water withdrawal permits, National Pollutant Discharge Elimination System (NPDES) permits, and compliance with NMFS and USFW and screening criteria. Although the USFWS does not have specific screening criteria at this time, research is being conducted at the Abernathy facility that will result in criteria specific for bull trout. In the interim, most USFWS field offices are using NMFS criteria. To obtain information regarding what, if any, screening criteria are being used by the USFWS in your area, please refer to Attachment 3 for the phone number and address of the nearest field office.*

### **SECTION 4. FACILITIES**

*For each item, provide descriptions of the hatchery facilities that are to be included in this plan (see “Guidelines for Providing Responses” Item E), including dimensions of trapping, holding incubation, and rearing facilities. Indicate the fish life stage held or reared in each. Also describe any instance where operation of the hatchery facilities, or new construction, results in adverse effects to habitat for listed species (habitat effects must be considered even if critical habitat is not designated).*

- 4.1) Broodstock collection, holding, and spawning facilities .**
- 4.2) Fish transportation equipment (description of pen, tank truck, or container used).**
- 4.3) Incubation facilities.**
- 4.4) Rearing facilities.**

**4.5) Acclimation/release facilities.**

**4.6) Describe operational difficulties or disasters that led to significant fish mortality.**

**4.6.1) Indicate available back-up systems, and risk aversion measures that minimize the likelihood for the take of listed species that may result from equipment failure, water loss, flooding, disease transmission, or other events that could lead to injury or mortality.**

*(e.g., “The hatchery will be staffed full-time, and equipped with a low-water alarm system to help prevent catastrophic fish loss resulting from water system failure.”)*

**4.6.2) Indicate needed back-up systems and risk aversion measures that minimize the likelihood for the take of listed species that may result from equipment failure, water loss, flooding, disease transmission, or other events that could lead to injury or mortality.**

## **SECTION 5. BROODSTOCK ORIGIN AND IDENTITY**

**5.1) Source.**

*List all original and current sources of broodstock for the program. Be specific (e.g., natural spawners from Bear Creek, etc.).*

**5.2) Supporting information.**

**5.2.1) History.**

*Provide a brief narrative history of the broodstock sources. For listed natural populations, specify its status relative to critical and viable population thresholds (use section 10.2.2 if appropriate). For existing hatchery stocks, include information on how and when they were founded, sources of broodstock since founding, and any purposeful or inadvertent selection applied that changed characteristics of the founding broodstock.*

**5.2.2) Annual size.**

*Provide estimates of the proportion of the natural population that will be collected for broodstock. Specify number of each sex, or total number and sex ratio, if known. For broodstocks originating from natural populations, explain how their use will affect their population status relative to critical and viable thresholds.*

**5.2.3) Past and proposed level of natural fish in broodstock.**

*If using an existing hatchery stock, include specific information on how many natural fish were incorporated into the broodstock annually.*

**5.2.4) Genetic or ecological differences.**

*Describe any known genotypic, phenotypic, or behavioral differences between current or proposed hatchery stocks and natural stocks in the target area.*

**5.2.5) Reasons for choosing Broodstock traits**

*Describe traits or characteristics for which broodstock was chosen.*

**5.2.6) ESA-Listing status**

**5.3) Indicate risk aversion measures that will be applied to minimize the likelihood for adverse genetic or ecological effects that may occur as a result of using the broodstock source.**

*(e.g., “The risk of among population genetic diversity loss will be reduced by selecting the indigenous white sturgeon population for use as broodstock in the supplementation program.”)*

## **SECTION 6. BROODSTOCK COLLECTION**

**6.1) Life-history stage to be collected ( eggs, juveniles, adults).**

**6.2) Collection or sampling design.**

*Include information on the location, time, and method of capture (e.g. weir trap, beach seine, etc.) Describe measures to reduce sources of bias that could lead to a non-representative sample of the desired broodstock source.*

**6.3) Identity.**

*Describe method for identifying (a) target population if more than one population may be present; and (b) hatchery origin fish from naturally spawned fish.*

**6.4) Proposed number to be collected:**

**6.4.1) Program goal (assuming 1:1 sex ratio for adults):**

**6.4.2) Broodstock collection levels for the last 12 years (e.g., 1988-99), or for most recent years available:**

Year	Adults			Eggs	Juveniles
	Females	Males	Jacks		
1988					
1989					
1990					
1991					
1992					
1993					
1994					
1995					
1996					
1997					
1998					
1999					

Data source: (Link to appended Excel spreadsheet using this structure. Include hyperlink to main database)

- 6.5) Disposition of hatchery-origin fish collected in surplus of broodstock needs.**  
*Describe procedures for remaining within programmed broodstock collection or allowable upstream hatchery fish escapement levels, including culling.*
  
- 6.6) Fish transportation and holding methods.**  
*Describe procedures for the transportation (if necessary) and holding of fish, especially if captured unripe or as juveniles. Include length of time in transit and care before and during transit and holding, including application of anesthetics, salves, and antibiotics.*
  
- 6.7) Describe fish health maintenance and sanitation procedures applied.**
  
- 6.8) Disposition of carcasses.**  
*Include information for spawned and unspawned carcasses, sale or other disposal methods, and use for stream reseedling.*
  
- 6.9) Indicate risk aversion measures that will be applied to minimize the likelihood for adverse genetic or ecological effects to listed species resulting from the broodstock**

**collection program.**

*(e.g. “The risk of fish disease amplification will be minimized by following Co-manager Fish Health Policy sanitation and fish health maintenance and monitoring guidelines.”)*

## **SECTION 7. MATING**

**Describe fish mating procedures that will be used, including those applied to meet performance indicators identified previously.**

**7.1) Selection method.**

*Specify how spawners are chosen (e.g. randomly over whole run, randomly from ripe fish on a certain day, selectively chosen, or prioritized based on hatchery or natural origin).*

**7.2) Fertilization.**

*Describe spawning protocols applied, including the fertilization scheme used (such as equal sex ratios and 1:1 individual matings; equal sex ratios and pooled gametes; or factorial matings). Explain any fish health and sanitation procedures used for disease prevention.*

**7.3) Cryopreserved gametes.**

*If used, describe number of donors, year of collection, number of times donors were used in the past, and expected and observed viability.*

**7.4) Indicate risk aversion measures that will be applied to minimize the likelihood for adverse genetic or ecological effects to listed natural fish resulting from the mating scheme.**

*(e.g., “A factorial mating scheme will be applied to reduce the risk of loss of within population genetic diversity for the westslope cutthroat trout population that is the subject of this supplementation program.”)*

## **SECTION 8. INCUBATION AND REARING**

**8.1) Incubation:**

**8.1.1) Number of eggs taken/received and survival rate at stages of egg development**

*Provide data for the most recent 12 years (1988-99), or for years dependable data are available.*

**8.1.2) Loading densities applied during incubation.**

*Provide egg size data, standard incubator flows, and standard loading per Heath tray (or other incubation density parameters).*

**8.1.3) Incubation conditions.**

*Describe monitoring methods, temperature regimes, minimum dissolved oxygen criteria (influent/effluent), and silt management procedures (if applicable), and any other parameters monitored.*

**8.1.4) Ponding.**

*Describe procedures (e.g., dates of ponding, volitional, forced).*

**8.1.5) Fish health maintenance and monitoring.**

*Describe fungus control methods, disease monitoring and treatment procedures, incidence of yolk-sac malformation, and egg mortality removal methods.*

**8.1.6) Indicate risk aversion measures that will be applied to minimize the likelihood for adverse genetic and ecological effects to fish during incubation.**

*(e.g., “Eggs will be incubated using well water only to minimize the risk of catastrophic loss due to siltation.”)*

**8.2) Rearing:**

**8.2.1) Provide survival rate data (average program performance) by hatchery life stage (fry to fingerling; fingerling to release) for the most recent twelve years (1988-99), or for years dependable data are available.**

**8.2.2) Density and loading criteria (goals and actual levels).**

*Include density targets (lbs fish/gpm, lbs fish/ft<sup>3</sup> rearing volume, etc.).*

**8.2.3) Fish rearing conditions**

*(Describe monitoring methods, temperature regimes, minimum dissolved oxygen, carbon dioxide, total gas pressure criteria (influent/effluent if available), and standard pond management procedures applied to rear fish).*

**8.2.4) Indicate biweekly or monthly fish growth information (average program performance), including length, weight, and condition factor data collected during rearing, if available.**

**8.2.5) Indicate food type used, daily application schedule, feeding rate range (e.g. % B.W./day and lbs/gpm inflow), and estimates of total food conversion efficiency during rearing (average program performance).**

**8.2.6) Fish health monitoring, disease treatment, and sanitation procedures.**

Provide condition factor indices



Release year	Eggs/ Unfed Fry	Avg size	Fry	Avg size	Fingerling	Avg size	Yearling	Avg size
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
1997								
1998								
1999								
Average								

- 9.4) Actual dates of release and description of release protocols.**  
*Provide the recent five year release date ranges by life stage produced (mo/day/yr). Also indicate the rationale for choosing release dates, how fish are released (volitionally, forced, volitionally then forced).*
- 9.5) Fish transportation procedures, if applicable.**  
*Describe fish transportation procedures for off-station release. Include length of time in transit, fish loading densities, and temperature control and oxygenation methods.*
- 9.6) Acclimation procedures (methods applied and length of time).**
- 9.7) Marks applied, and proportions of the total hatchery population marked, to identify hatchery component.**
- 9.8) Disposition plans for fish identified at the time of release as surplus to programmed or approved levels.**
- 9.9) Fish health certification procedures applied pre-release.**
- 9.10) Emergency release procedures in response to flooding or water system failure.**

- 9.11) Indicate risk aversion measures that will be applied to minimize the likelihood for adverse genetic and ecological effects to listed species resulting from fish releases.

## **SECTION 10. PROGRAM EFFECTS ON ALL ESA-LISTED, PROPOSED, AND CANDIDATE SPECIES (FISH AND WILDLIFE)**

- 10.1) List all ESA permits or authorizations in hand for the hatchery program.
- 10.2) Provide descriptions, status, and projected take actions and levels for ESA-listed natural populations in the target area.

**10.2.1) Description of ESA-listed, proposed, and candidate species affected by the program.**

*Include information describing: adult age class structure, sex ratio, size range, migrational timing, spawning range, and spawn timing; and juvenile life history strategy, including smolt emigration timing. Emphasize spatial and temporal distribution relative to hatchery fish release locations and weir sites.*

**- Identify the ESA-listed population(s) that will be directly affected by the program.** *(Includes listed fish used in supplementation programs or other programs that involve integration of a listed natural population. Identify the natural population targeted for integration).*

\*\*\* To obtain a list of listed species in your area, refer to Attachment 3 for the phone number and address of the nearest ecological field office.\*\*\*

**- Identify the ESA-listed population(s) that may be incidentally affected by the program.**

*(Includes ESA-listed fish in target hatchery fish release, adult return, and broodstock collection areas).*

**10.2.2) Status of ESA-listed species affected by the program.**

**- Describe the status of the listed natural population(s) relative to “critical” and “viable” population thresholds** *(see definitions in “Attachment 1”).*

**- Provide the most recent 12 year (e.g. 1988 - present) progeny-to-parent ratios, survival data by life-stage, or other measures of productivity for the listed population. Indicate the source of these data.**

**- Provide the most recent 12 year (e.g. 1988 - 1999) annual spawning abundance estimates, or any other abundance information. Indicate the source of these data. (Include estimates of juvenile habitat seeding relative to capacity or natural fish densities, if available).**

**- Provide the most recent 12 year (e.g. 1988 - 1999) estimates of annual proportions of direct hatchery-origin and listed natural-origin fish on natural spawning grounds, if known.**

**10.2.3) Describe hatchery activities, including associated monitoring and evaluation and research programs, that may lead to the take of listed species in the target area, and provide estimated annual levels of take (see "Attachment 1" for definition of "take"). Provide the rationale for deriving the estimate.**

**- Describe hatchery activities that may lead to the take of listed species in the target area, including how, where, and when the takes may occur, the risk potential for their occurrence, and the likely effects of the take.**

**- Provide information regarding past takes associated with the hatchery program, (if known) including numbers taken, and observed injury or mortality levels for listed fish.**

**- Provide projected annual take levels for listed species by life stage (juvenile and adult) quantified (to the extent feasible) by the type of take resulting from the hatchery program (e.g. capture, handling, tagging, injury, or lethal take). Complete the appended "take table" (Table 1) for this purpose. Provide a range of potential take numbers to account for alternate or "worst case" scenarios.**

**- Indicate contingency plans for addressing situations where take levels within a given year have exceeded, or are projected to exceed, take levels described in this plan for the program.**

*(e.g. "The number of days that westslope cutthroat trout are trapped in Lake Creek will be reduced if the total mortality of handled fish is projected inseason to exceed the 1988-99 maximum observed level.")*

## **SECTION 11. MONITORING AND EVALUATION OF PERFORMANCE INDICATORS**

*This section describes how "Performance Indicators" listed in Section 1.10 will be monitored. Results of "Performance Indicator" monitoring will be evaluated annually and used to adaptively manage the hatchery program, as needed, to meet "Performance Standards".*

**11.1) Monitoring and evaluation of “Performance Indicators” presented in Section 1.10.**

**11.1.1) Describe the proposed plans and methods necessary to respond to the appropriate “Performance Indicators” that have been identified for the program.**

**11.1.2) Indicate whether funding, staffing, and other support logistics are available or committed to allow implementation of the monitoring and evaluation program.**

**11.2) Indicate risk aversion measures that will be applied to minimize the likelihood for adverse genetic and ecological effects to listed species resulting from monitoring and evaluation activities.**

## **SECTION 12. RESEARCH**

*Provide the following information for any research programs conducted in direct association with the hatchery program described in this HGMP. Provide sufficient detail to allow for the independent assessment of the effects of the research program on listed fish. Attach a copy of any formal research proposal addressing activities covered in this section. Include estimated take levels for the research program with take levels provided for the associated hatchery program in Table 1.*

**12.1) Objective or purpose.**

*Indicate why the research is needed, its benefit or effect on listed natural fish populations, and broad significance of the proposed project.*

**12.2) Cooperating and funding agencies.**

**12.3) Principle investigator or project supervisor and staff.**

**12.4) Status of population, particularly the group affected by project, if different than the population(s) described in Section 2.**

**12.5) Techniques: include capture methods, drugs, samples collected, tags applied**

**12.6) Dates or time period in which research activity occurs.**

**12.7) Care and maintenance of live fish or eggs, holding duration, transport methods.**

- 12.8) Expected type and effects of take and potential for injury or mortality.**
- 12.9) Level of take of listed species: number or range of individuals handled, injured, or killed by sex, age, or size, if not already indicated in Section 2 and the attached “take table” (Table 1).**
- 12.10) Alternative methods to achieve project objectives.**
- 12.11) List species similar or related to the threatened species; provide number and causes of mortality related to this research project.**
- 12.12) Indicate risk aversion measures that will be applied to minimize the likelihood for adverse ecological effects, injury, or mortality to listed species as a result of the proposed research activities.**  
*(e.g., “Listed westslope cutthroat trout sampled for the growth study will be collected in compliance with Federal Guidelines to minimize the risk of injury or immediate mortality.”).*

### **SECTION 13. ATTACHMENTS AND CITATIONS**

*Include all references cited in the HGMP. In particular, indicate hatchery databases used to provide data for each section. Include electronic links to the hatchery databases used (if feasible), or to the staff person responsible for maintaining the hatchery database referenced (indicate email address). Attach or cite (where commonly available) relevant reports that describe the hatchery operation and impacts on the listed species or its critical habitat. Include any EISs, EAs, Biological Assessments, benefit/risk assessments, or other analysis or plans that provide pertinent background information to facilitate evaluation of the HGMP.*

### **SECTION 14. CERTIFICATION LANGUAGE AND SIGNATURE OF RESPONSIBLE PARTY**

“I hereby certify that the foregoing information is complete, true and correct to the best of my knowledge and belief. I understand that the information provided in this HGMP is submitted for the purpose of receiving limits from take prohibitions specified under the Endangered Species Act of 1973 (16 U.S.C.1531-1543) and regulations promulgated thereafter for the proposed hatchery program, and that any false statement may subject me to the criminal penalties of 18 U.S.C. 1001, or penalties provided under the Endangered Species Act of 1973.”

Name, Title, and Signature of Applicant:

Certified by \_\_\_\_\_ Date: \_\_\_\_\_



Table 1. Estimated listed species take levels by hatchery activity.

Listed species affected: _____ ESU/Population: _____ Activity: _____				
Location of hatchery activity: _____		Dates of activity: _____		Hatchery program operator: _____
Type of Take	Annual Take of Listed Fish By Life Stage ( <i>Number of Fish</i> )			
	Egg/Fry	Juvenile/Smolt	Adult	Carcass
Observe or harass a)				
Collect for transport b)				
Capture, handle, and release c)				
Capture, handle, tag/mark/tissue sample, and release d)				
Removal (e.g. broodstock) e)				
Intentional lethal take f)				
Unintentional lethal take g)				
Other Take (specify) h)				

- a. Contact with listed fish through stream surveys, carcass and mark recovery projects, or migrational delay at weirs.
- b. Take associated with weir or trapping operations where listed fish are captured and transported for release.
- c. Take associated with weir or trapping operations where listed fish are captured, handled and released upstream or downstream.
- d. Take occurring due to tagging and/or bio-sampling of fish collected through trapping operations prior to upstream or downstream release, or through carcass recovery programs.
- e. Listed fish removed from the wild and collected for use as broodstock.
- f. Intentional mortality of listed fish, usually as a result of spawning as broodstock.
- g. Unintentional mortality of listed fish, including loss of fish during transport or holding prior to spawning or prior to release into the wild, or, for integrated programs, mortalities during incubation and rearing.
- h. Other takes not identified above as a category.

**Instructions:**

1. An entry for a fish to be taken should be in the take category that describes the greatest impact.
2. Each take to be entered in the table should be in one take category only (there should not be more than one entry for the same sampling event).
3. If an individual fish is to be taken more than once on separate occasions, each take must be entered in the take table.

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October 16, 2001

### Artificial Production Advisory Committee (APAC)

Date: October 16, 2001

Place: Lewiston, Idaho

Time: 8AM - 2:00 PM

### Artificial Production Advisory Committee (Resident Fish Workshop) October 16, 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 Present
Confederated Tribes of the Colville Reservation	Joe Peone John Arterburn	Not Present Present
Spokane Tribes of Indians	Keith Underwood	Present
Kalispel Tribe of Indians	Joe Maroney	Present
Kootenai Tribe	Sue Ireland	Present on Phone
Coeur d'Alene Tribe	Ronald Peters	Present
Nez Perce Tribe	Ed Larson Dave Statler	Not Present Present
Confederated Tribes of the Umatilla Indian Reservation	Brian Zimmerman	Not 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 Dave Moser	Not Present Present
Shoshone-Paiute Tribes of the Duck Valley Reservation	Guy Dodson, Sr. Vincent Pero Tom Clune	Present Present Present
Columbia River Inter-Tribal Fish Commission	Doug Dompier	Not Present
Upper Columbia United Tribes	Bill Wiles	Not Present
Bonneville Power Administration	Jeff Gislason Ron Morinaka	Not Present Present

National Marine Fisheries Service	Bob Foster	Not Present
U.S. Fish and Wildlife Service	Lee Hillwig Mike Faler	Present Present
Idaho Department of Fish and Game	Tom Rogers Pete Hassemer	Not Present Present by Phone
Oregon Department of Fish and Wildlife	Trent Stickell Dave Ward	Not Present Present
Washington Department of Fish and Wildlife	Chuck Johnson Jim Uehara	Not Present
Montana Department of Fish, Wildlife and Parks	Gary Bertellotti	Not Present
Chelan PUD	Steve Hayes	Not Present
Grant County PUD	Stuart Hammond	Not Present
Native Fish Society	Bill Bakke	Not Present
Contractor	Steve Smith	Not Present
Oregon State University	Ian Fleming	Not Present

Also Attending:       Clint Muhlfeld, Montana Fish, Wildlife & Parks  
                              Daniel Gonzales, Burns Paiute Tribe - Present by Phone

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