

**FRANK L. CASSIDY
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NORTHWEST POWER PLANNING COUNCIL

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**Stan Grace
Montana**

**Leo A. Giacometto
Montana**

NWPPC Artificial Production Advisory Committee

Date: Tuesday July 10, 2001

Time: 10:00 AM to 4:30 PM

Location: Spokane, WA

Meeting Packet

**NWPPC Artificial Production Advisory Committee
Meeting Packet Contents**

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4	Review of Charter / NWPPC Fish and Wildlife Program Goals	10:15 AM	10:30 AM	Bruce Suzumoto	4-7
5	Administrative Issues Travel Policies Lunches Schedules Documents in Packet Communications for Committee Members	10:30 AM	10:35 AM	Mark Fritsch / Dan Warren	8-12
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7	Review of APR Process	10:45 AM	11:15 AM	Steve Smith	16
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8A	NWPPC Sub Basin Planning Project Funding Processes			Bruce Suzumoto / Mark Fritsch	17-19
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	LUNCH	12:00 NOON	1:00 PM		
9	APR / Implementation Workplan; Schedule (3 year) and Deliverables	1:00 PM	2:30 PM	Bruce Suzumoto	26-32
	Break	2:30 PM	2:45 PM		
	APR / Implementation Workplan; Schedule (3 year) and Deliverables	2:45 PM	4:00 PM	Bruce Suzumoto	
10	Public Comment	4:00 PM	4:15 PM		
11	Next meeting Time / Place / Agenda Items End		4:30 PM	Bruce Suzumoto	

Section 1. Introduction

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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.

Policies to Guide Implementation Phase of APR Process (2000 Fish and Wildlife Program)

- The purpose and use of artificial production must be considered in the *context of the ecological environment* in which it will be used.
- Artificial production must be implemented within an experimental, adaptive management design that includes an aggressive program to evaluate the risks and benefits and address scientific uncertainties.
- Hatcheries must be operated in a manner that recognizes that they *exist* within *ecological systems whose behavior is constrained by larger-scale basin, regional and global factors*.
- A diversity of life history types and species needs to be maintained in order to sustain a system of populations in the face of environmental variation.
- Naturally selected populations should provide the model for successful artificially reared populations, in regard to population structure, mating protocol, behavior, growth, morphology, nutrient cycling, and other biological characteristics.
- The entities authorizing or managing an artificial production facility or program should explicitly identify whether the artificial propagation product is intended for the purpose of augmentation, mitigation, restoration, preservation, research, or some combination of those purposes for each population of fish addressed.
- *Decisions on the use of the artificial production tool need to be made in the context of deciding on fish and wildlife goals, objectives and strategies at the subbasin and province levels.*
- Appropriate risk management needs to be maintained in using the tool of artificial propagation.
- Production for harvest is a legitimate management objective of artificial production, but to minimize adverse impacts on natural populations associated with harvest management of artificially produced populations, harvest rates and practices must be dictated by the requirements to sustain naturally spawning populations.
- Federal and other legal mandates and obligations for fish protection, mitigation, and enhancement must be fully addressed.

Specific Deliverables Requested by Council from APAC;

- Identification of facility or program purpose (as it applies to regional goals and objectives). Goal 3 in draft workplan.
- A capital plan for facilities and programs that identifies projects and costs to make changes thus aligning artificial production with regional goals and objectives. Find needed funding for identified changes. Goal 4 in draft workplan.
- An evaluation of the changes. Goal 5 in draft workplan.
- Project is to be completed on a 3-year (Goal 3,4) and 5-year (Goal 5) in draft workplan.

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Section 2. APAC Members

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Artificial Production Advisory Committee

Northwest Power Planning Council	Bruce Suzumoto, Mark Fritsch, Dan Warren
Columbia Basin Fish and Wildlife Authority	Brian Allee
Confederated Tribes of the Colville Reservation	Joe Peone
Spokane Tribes of Indians	Keith Underwood
Kalispel Tribe of Indians	Joe Maroney
Kootenai Tribe	Sue Ireland
Coeur d'Alene Tribe	Ronald Peters
Nez Perce Tribe	Ed Larson
Confederated Tribes of the Umatilla Indian Reservation	Brian Zimmerman
Confederated Tribes of the Warm Springs Reservation of Oregon	Bob Spateholts
Yakama Nation	Tom Scribner
Shoshone-Bannock Tribes of the Fort Hall Reservation	Chad Colter
Shoshone-Paiute Tribes of the Duck Valley Reservation	Guy Dodson, Sr.
Columbia River Inter-Tribal Fish Commission	Doug Dompier
Upper Columbia United Tribes	Bill Wiles
Bonneville Power Administration	Tom Backman
National Marine Fisheries Service	Rob Jones
U.S. Fish and Wildlife Service	Lee Hellwig
Idaho Department of Fish and Game	Tom Rogers
Oregon Department of Fish and Wildlife	Trent Stickell
Washington Department of Fish and Wildlife	Bob Foster
Montana Department of Fish, Wildlife and Parks	Gary Bertellotti
Chelan PUD	Steve Hayes
Grant County PUD	Stuart Hammond
Native Fish Society	Bill Bakke
Oregon State University	Ian Flemming

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June 20, 2001

MEMORANDUM

TO: Council Members

FROM: Bruce Suzumoto, Mark Fritsch and Dan Warren

SUBJECT: Artificial Production Advisory Committee Membership

Staff is seeking approval of three members to the Council's Artificial Production Advisory Committee (APAC): 1) Brian Allee, Columbia Basin Fish and Wildlife Authority; 2) Bill Wiles, Upper Columbia United Tribes; and 3) Ian Flemming, Oregon State University. Brian Allee and Bill Wiles represent fish manager, member-based organizations that are interested in artificial production issues and Ian Flemming is an independent scientist with a broad background in salmonid aquaculture and genetics.

Section 3. Agenda

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**NWPPC Artificial Production Advisory Committee
Draft Meeting Agenda
Date: Tuesday July 10, 2001
Time: 10:00 AM to 4:30PM
Location: Spokane, WA**

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	End		4:30 PM	

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Section 4. APAC Charter

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Idaho

Jim Kempton
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PACIFIC NORTHWEST ELECTRIC POWER AND CONSERVATION PLANNING COUNCIL:

CHARTER OF THE ARTIFICIAL PRODUCTION ADVISORY COMMITTEE

1. Official Designation: This advisory committee will be known as the Pacific Northwest Electric Power and Conservation Planning Council's Artificial Production Advisory Committee.
2. Background: The Northwest Power Act, P.L. 96-501, 16 U.S.C. §839 *et seq.* (Act), in Section 4(h)(1)(A), requires the Council to develop a fish and wildlife program for the Columbia River Basin. The Program establishes the creation of Artificial Production Advisory Committee in order to achieve a regional perspective and a unified approach to artificial production reform. The Artificial Production Advisory Committee is intended to provide the Council with advice on artificial production reform and assist the Council in implementing those reforms. This advisory committee is established as part of a network of advisory committees satisfying the Council's obligation under the Act to establish a Scientific and Statistical Advisory Committee. 16 U.S.C. §839b(c)(11). Under section 4(a)(4) of the Act, the terms of the Federal Advisory Committee Act, 5 U.S.C. Appendix I, Sections 1-14, apply "to the extent appropriate" to the Council's advisory committees. 16 U.S.C. §839b(a)(4).
3. Objectives and Scope of Activity: The Artificial Production Advisory Committee will advise the Council on the implementation of artificial production reform and realignment in the Columbia basin. It will attempt to coordinate these changes in the most consistent and efficient manner possible. The Artificial Production Advisory Committee will fulfill this role by:
 - (A) Assisting the Council in evaluating the appropriate purposes of artificial production programs and facilities.
 - (B) Advising the Council on the most effective ways to implement artificial production strategies described in the 2000 Columbia River Basin Fish and Wildlife Program (Council document 2000-19) and policies and recommendations outlined in the Artificial Production Review report (Council document 99-15).

- (C) Assisting the Council in determining appropriate artificial production performance standards.
 - (D) Proposing actions to the Council to achieve the intended reform.
 - (E) Helping to identify sources of artificial production information and data.
 - (F) Assisting in the review of specific artificial production programs.
 - (G) On a quarterly basis, reporting to the Council on the status of artificial production reform in the basin.
4. Official to Whom the Advisory Committee Reports: The Artificial Production Advisory Committee will report to the Executive Director of the Council.
 5. Authority of the Advisory Committee: The Artificial Production Advisory Committee will serve in an advisory capacity only. Neither the Committee nor its members are authorized to make statements or commitments on behalf of the Council. Committee members will not be considered to be members of the Council staff.
 7. Advisory Committee Management Officer: The Advisory Committee Management Officer for the Artificial Production Advisory Committee will be the Director of the Council's Fish and Wildlife Division. The Management Officer will designate members of the Council's staff to attend meetings of the Committee.
 8. Appointment of Artificial Production Advisory Committee Members: Members will be appointed by the Council. Membership will include individuals from fish and wildlife agencies, tribes, independent scientists, and representatives of non-governmental organizations.
 9. Length of Committee Membership: Artificial Production Advisory Committee members will serve two years. Terms may be staggered to maintain some continuity to the Committee.
 10. Chairperson:
 - (A) The Chairperson will be a Council staff member designated by the Management Officer.
 - (B) The Chairperson may be called upon to report to the Executive Director of the Council on appropriate matters, including the Advisory Committee's progress on the tasks described in Part 3 of this Charter.
 - (C) The duties of the Chairperson will include presiding over Artificial Production Advisory Committee meetings, ensuring that detailed minutes of such meetings are prepared and submitted to the Executive Director of the Council in a timely manner, and maintaining communication between the Committee and the Council's staff.
 - (D) The Chairperson will certify detailed minutes of meetings of the Artificial Production Advisory Committee. The minutes will include a description of matters discussed, conclusions reached, actions taken, persons invited to meet with the Committee, and

persons in attendance. The minutes also will include copies of reports received, issued or approved by the Committee. Minutes of meetings will be prepared and released within ten days of the meeting, unless an extension is granted by the Management Officer. The Management Officer will distribute copies of the minutes to members of the Committee and the other interested persons.

- (E) Sub-groups of the Artificial Production Advisory Committee may be established by the Chairperson of the Committee to undertake particular aspects of the Committee's work. Methods for organizing the work and procedures of the Committee must follow the scope of responsibilities assigned to the Committee by the Council. The work of the staff for the Committee will include making arrangements for Committee meetings, solving logistical problems, and providing clerical services.
 - (F) The Chairperson will be responsible for calling meetings, setting the agenda, closing meetings, coordinating work with the Council, and managing the business functions.
11. Policy: The advisory committee policy approved and adopted by the Council on May 17, 1982, as amended from time to time, will apply to the Artificial Production Advisory Committee.
 12. Estimated Frequency of Committee Meetings: The Chairperson of the Artificial Production Advisory Committee, after consultation with the Management Officer, or his designee, will call meetings as necessary. All meetings will be open to the public, unless closed pursuant to 5 U.S.C. §552b(c). Timely notice of meetings, including agendas, will be given. Interested persons may attend Committee meetings and appear before or file statements with the Committee, subject to such reasonable rules as the Committee may prescribe.
 13. Reimbursement of Expenses: The Council will reimburse Artificial Production Advisory Committee members for travel costs, including per diem in lieu of subsistence in accordance with the Council's travel regulations for contractors and advisory committee members, for the purpose of attending Committee meetings as authorized by 5 U.S.C. §5703. In addition, the Council may contract with Board members or others to carry out specific tasks. In particular cases, and with Council approval, the Artificial Production Advisory Committee may recommend the use of consultants to accomplish an assigned task.
 14. Duration: The Artificial Production Advisory Committee will terminate two years from the filing date of this Charter, unless renewed in accordance with the Federal Advisory Committee Act. All members of the Committee serve at the pleasure of the Council.

This Charter for the Artificial Production Advisory Committee was approved and adopted at a duly called meeting of the Pacific Northwest Power and Conservation Planning Council, _____, in _____, _____.

PACIFIC NORTHWEST ELECTRIC POWER
AND CONSERVATION PLANNING COUNCIL

By: _____
Frank L. (“Larry”) Cassidy, Chairman

Date Filed: _____

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Section 5. Administrative Issues

- b. Lunch -- Noon (\$8.00 allowance; \$11.00 high cost).
 - c. Dinner -- 5 p.m. (\$12.00 allowance; \$17.00 high cost).
2. Meal reimbursement on the day of return are payable if the return to the official duty station, exclusive of eating time, was on or after the following times:
- a. Breakfast -- 9 a.m. (\$6.00 allowance; \$10.00 high cost).
 - b. Lunch -- 2 p.m. (\$8.00 allowance; \$11.00 high cost).
 - c. Dinner -- 7 p.m. (\$12.00 allowance; \$17.00 high cost).
3. Reimbursement for meals will only be allowed for travel which exceeds 50 miles from the official duty station or where prior written approval has been received from the administrative officer.

OUT-OF-REGION TRAVEL

Approval. Out-of-region travel must be approved in advance using the out-of-region travel request form.

Meal Reimbursement. meal reimbursements for contractor out-of-region travel will be \$38.00 per day (breakfast \$10.00, lunch \$11.00, dinner \$17.00).

Lodging Reimbursement. Actual and reasonable reimbursement with preference given to facilities which provide government or commercial rates. Original receipts are required. Travelers who stay with friends or relatives while traveling and who do not incur overnight lodging expenses where overnight lodging would have been required, are entitled to a \$20.00 non-commercial overnight lodging allowance. This rate also applies when lodging receipts are lost.

OTHER TRAVEL EXPENSES

Transportation Reimbursement.

1. Coach airfare is reimbursable, provided that the contractor shall use the most practical and cost-effective routing and fare basis without regard to mileage or other incentives offered by carriers.
2. Private auto mileage at the IRS mileage rate not to exceed the total of airfare, meals, parking, car rental, and lodging allowances to which the contractor would have been entitled if traveling by air.
3. Public ground transportation, when in travel status, is allowed as long as it is the least costly and practical means of transport is used. Original receipts are required. **Airport busing should be used if available.**
4. Taxi fares are reimbursable when they are the least costly and practical means of ground transportation. Original receipts are required.
5. Public parking reimbursement requires original receipts.
6. Car rental may be allowed outside the city of residence on those occasions when it may be a more cost-effective method of local ground transportation or when meeting locations cannot be easily reached by local public transportation. Contractors shall attach a cost justification for rental car claims. Contractors will be reimbursed for the rental rate of a compact car. Higher rates may require additional explanation, or approval (for example, staff traveling together, road conditions and cargo). Original rental receipts and gasoline receipts are required.

General Information. Long distance telephone calls are not a reimbursable expense. Except as provided in this policy for individual meals, lodging and transportation, contractors and Advisory Committee members do not have authority to incur expenses or enter contracts on behalf of the Council. Arrangement for meeting rooms will be made, without food or coffee service, by the authorized Council staff.

Actual and Reasonable Costs. Contractors are expected to exercise prudent judgment in incurring travel expenses on official Council business. Expenses should be incurred in an economical and practical manner. Both the Bonneville Power Administration and the State of

Washington publish maximum lodging and meal reimbursement rates for most major cities in the U.S. These provide helpful guidelines in determining the reasonableness of meal and lodging expenses. Copies of these guidelines are available from the Council's business manager.

NORTHWEST POWER PLANNING COUNCIL TRAVEL EXPENSE FORM

LAST NAME:	Last Name Here	Mode of Travel:	
FIRST NAME:	First Name Here	In Region or	<input checked="" type="checkbox"/> X
ADDRESS:	Address Here	Out of Region?	
Nature of Business	Nature of business here	Cost of Airfare (*enter below if employee paid,	
		Private Auto Miles:	\$0.345 /Mile
		Other (identify):	Identify Here
			And Here

DEPARTURE			ARRIVAL		MEALS				HOTEL		
Date	Depart Time	From	Arrive Time	To	Private	\$6.00	\$8.00	\$12.00	In Region	Place	Cost
					Car Miles	Morning	Noon	Evening	Total		
Total						Total				Total	

*Recap of out-of-pocket expenses	Amount
Meals	
Lodging	
Taxi/Limo	
Telephone	
Parking	
Registration	
Fares*	
Private car mileag	
Rental Car	
Other	
Total	

1. Attach all original receipts, including the actual airline ticket stub receipt.
2. Attach explanation for other expenses over \$10.00 with no receipt. Payment subject to approval by administrative officer.

I certify that I have performed the above travel in connection with my duties as authorized by the Northwest Power Planning Council.

Office Use Only	
Account number(s):	Amount
7101	
7102	
7103	
7104	
7105	
5610	
TOTAL	

Notes: _____

 (Signed) _____ (Date)

Section 6. APAC Operating Procedures

July 2, 2001

**OPERATING PROCEDURES
OF THE
ARTIFICIAL PRODUCTION ADVISORY COMMITTEE
(APAC)**

COMMITTEE PURPOSE: To advise the Northwest Power Planning Council on how best to achieve a regional perspective and unified approach to artificial production reform in the Columbia River Basin.

CHAIRPERSON: The Chairperson will be a NWPPC staff member designated by the Director of the Council's Fish and Wildlife Division. The Chairperson will call meetings, set the agenda, close meetings, coordinate APAC work with the Council, and manage APAC business functions.

MEETING NOTICE: The Chairperson, in consultation with the Director of the Council's Fish and Wildlife Division, will call meetings as necessary. APAC meetings will be publicly announced in a timely manner and include the time, place, summary of the meeting agenda, and contact person. Changes to meeting time or place will be announced at the earliest practicable time. Meeting agendas may be changed by the Chairperson following the meeting announcement, if business so requires. Changes to meeting agendas will be publicly announced at the earliest practicable time.

MEETING AGENDA: The agenda will list matters to be considered at the Committee meeting. Agendas will be reviewed and may be revised by members at the start of each meeting.

PUBLIC PARTICIPATION: All meetings of APAC shall be open to the public, unless closed pursuant to 5 U.S.C. 552(b)c. Interested persons shall be permitted to attend, appear before, and file statements related to the agenda with APAC. Public presentations to APAC must comply with reasonable limits prescribed by the Chairperson. The APAC agenda will provide at least 15 minutes for public presentations.

PUBLIC RECORDING: Members of the public may record APAC discussions. Rules for any recording shall be at the discretion of the Chairperson so as not to significantly disrupt APAC proceedings.

MEETING MINUTES: APAC meeting minutes will be prepared by Chairperson or his designee. Minutes will include a description of matters discussed, conclusions reached, actions taken, persons invited to meet with APAC, and persons in attendance. Minutes will include copies of reports received, issued, or approved by APAC. Meeting minutes

will be prepared and released within 10 days of the meeting, unless an extension is granted by the F&W Director. Draft meeting minutes will be e-mailed to APAC members for at least a 2-day review and comment period. Minutes will be certified by the Chairperson, submitted to the Council's Executive Director (Steve Crow) and distributed by the F&W Director.

QUARTERLY REPORTS: On a quarterly basis, APAC will report on the status of artificial production reform to the Council. Quarterly reports will be prepared by the Chairperson or his designee. APAC members will have at least 5 working days to review and comment on draft quarterly reports.

COMMITTEE RECORDS: Records, reports, minutes, agendas, and other documents made available to, or prepared by, APAC will be available for public inspection by accessing the Council's website.

MEETING FACILITATION: Meetings of APAC may include a facilitator at the behest of the Chairperson. The facilitator will assist in providing the opportunity for all APAC members to fully participate in discussions and help members resolve conflicts as they arise. The facilitator will also assist the Chairperson in:

- 1) Drafting APAC agendas
- 2) Drafting APAC minutes
- 3) Assisting in arranging APAC meetings
- 4) Assisting the Chairperson in enforcing APAC ground rules
- 5) Advising the Committee on artificial production reform issues and information

COMMITTEE DECISION-MAKING: Decisions or conclusions of APAC will be made by consensus whenever possible. Consensus is defined as an opinion held by all or most members of the committee. The use of majority and minority reporting will be utilized when necessary to promote consensus reports and advice to the Council. In the absence of consensus, the issue will be referred to the F&W Director who may refer the issue back to APAC with advice or forward to the Council's Fish Four for discussion.

MEETING GROUND RULES:

Members will treat each other with respect, which includes:

- Arriving and starting on time
- Being prepared for meetings
- Listening to what others have to say
- Not interrupting
- Monitoring your own time
- Not participating in disruptive side conversations
- Signaling the Chairperson or facilitator when you would like to speak
- Being mindful of tact and tone when speaking directly to other APAC members

When a number of members desire to speak on an agenda topic, the Chairperson or facilitator will ensure desiring members are allowed to present their information in order. Each member will be allowed to speak prior to revisiting those members who have already spoken.

When seating is limited non-members will provide chairs to APAC members.

The Chairperson and facilitator will make process comments in order to keep APAC on agenda, focused and productive.

Members should arrive at meetings prepared to participate and represent their organizations or agencies. Members are expected to keep their organizations or agencies apprised of APAC issues and decisions.

CONFLICTS OF INTEREST: APAC members may participate in committee discussions resulting in advice to the Council on issues and actions that generally or directly affect his/her organization. APAC members may not participate in APAC decision-making on contracts or financial relationships directly between the Council and the member's organization, company, or agency for which the member is affiliated or has a financial interest. APAC members must also avoid:

- 1) Use of APAC membership which is or gives the appearance of being motivated by the desire for private gain;
- 2) Use of any inside information obtained as a result of Committee service for private personal gain;
- 3) Use of APAC membership to coerce, or give the appearance of coercing, another person to provide financial benefit to the member or any person with whom the member has family, business, or financial ties.
- 4) Receiving or soliciting from persons having business with the Council (e.g. consultants or contractors), anything of value as a gift, gratuity, loan, or favor while serving on APAC.

Section 7. APR Review

Insert (22 pages)

ARTIFICIAL PRODUCTION REVIEW

- MANAGEMENT HIERARCHY -

8 SCIENTIFIC & ECOLOGICAL PRINCIPLES

5 LEGAL MANDATES

5 PURPOSES OF ARTIFICIAL PRODUCTION

10 ARTIFICIAL PRODUCTION POLICIES

**PERFORMANCE STANDARDS &
INDICATORS**

MONITORING AND EVALUATION

8 SCIENTIFIC & ECOLOGICAL PRINCIPLES

- 1. THE ABUNDANCE AND PRODUCTIVITY OF FISH AND WILDLIFE REFLECT THE CONDITIONS THEY EXPERIENCE IN THE ECOSYSTEM AND OVER THE COURSE OF THEIR LIFE CYCLE**
- 2. NATURAL ECOSYSTEMS ARE DYNAMIC, EVOLUTIONARY, AND RESILIENT**
- 3. ECOSYSTEMS ARE STRUCTURED HIERARCHICALLY**
- 4. ECOSYSTEMS ARE DEFINED RELATIVE TO SPECIFIC COMMUNITIES OF PLANT AND ANIMAL SPECIES**

- 5. BIOLOGICAL DIVERSITY
ACCOMMODATES ENVIRONMENTAL
VARIATION**

- 6. ECOSYSTEM CONDITIONS DEVELOP
PRIMARILY THROUGH NATURAL
PROCESSES**

- 7. ECOLOGICAL MANAGEMENT IS
ADAPTIVE AND EXPERIMENTAL**

- 8. HUMAN ACTIONS CAN BE KEY FACTORS
STRUCTURING ECOSYSTEMS**

5 LEGAL MANDATES

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

5 PURPOSES OF ARTIFICIAL PRODUCTION

- 1. AUGMENTATION – INCREASE HARVESTABLE NUMBERS OF FISH**
- 2. MITIGATION – REPLACE OR COMPENSATE LOST HABITAT CAPACITY**
- 3. RESTORATION – HASTEN REBUILDING OR REINTRODUCTION OF A POPULATION TO HARVESTABLE LEVELS**
- 4. PRESERVATION/CONSERVATION – CONSERVE GENETIC RESOURCES OF FISH POPULATIONS**
- 5. RESEARCH – HOW TO EFFECTIVELY USE ARTIFICIAL PRODUCTION TO ADDRESS THE OTHER PURPOSES**

10 ARTIFICIAL PRODUCTION POLICIES

- 1. THE MANNER OF USE AND THE VALUE OF ARTIFICIAL PRODUCTION MUST BE CONSIDERED IN THE CONTEXT OF THE ENVIRONMENT IN WHICH IT WILL BE USED**
- 2. ARTIFICIAL PRODUCTION MUST BE IMPLEMENTED WITHIN AN EXPERIMENTAL, ADAPTIVE MANAGEMENT DESIGN ...**
- 3. HATCHERIES MUST BE OPERATED IN A MANNER THAT RECOGNIZES THAT THEY EXIST WITHIN ECOLOGICAL SYSTEMS ...**
- 4. A DIVERSITY OF LIFE HISTORY TYPES AND SPECIES NEEDS TO BE MAINTAINED IN ORDER TO SUSTAIN A SYSTEM OF POPULATIONS IN THE FACE OF ENVIRONMENTAL VARIATION**

- 5. NATURALLY SELECTED POPULATIONS SHOULD PROVIDE THE MODEL FOR SUCCESSFUL ARTIFICIALLY REARED POPULATIONS ...**

- 6. THE ENTITIES MANAGING AN ARTIFICIAL PRODUCTION FACILITY OR PROGRAM SHOULD EXPLICITLY IDENTIFY ... THE PURPOSE(S) FOR WHICH THE PRODUCT IS INTENDED**

- 7. DECISIONS ON THE USE OF THE ARTIFICIAL PRODUCTION TOOL NEED TO BE MADE IN THE CONTEXT OF DECIDING ON FISH & WILDLIFE GOALS, OBJECTIVES AND STRATEGIES AT THE SUB-BASIN AND PROVINCE LEVELS**

- 8. APPROPRIATE RISK MANAGEMENT NEEDS TO BE MAINTAINED IN USING THE TOOL OF ARTIFICIAL PROPAGATION**

- 9. PRODUCTION FOR HARVEST IS A LEGITIMATE MANAGEMENT OBJECTIVE OF ARTIFICIAL PRODUCTION ... BUT HARVEST RATES AND PRACTICES MUST BE DICTATED BY THE REQUIREMENTS TO SUSTAIN NATURALLY SPAWNING POPULATIONS**

- 10. FEDERAL AND OTHER LEGAL MANDATES AND OBLIGATIONS FOR FISH PROTECTION, MITIGATION, AND ENHANCEMENT MUST BE FULLY ADDRESSED.**

REPORTS
OF THE
INDEPENDENT SCIENCE ADVISORY BOARD

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

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

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

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

**KEY FINDINGS
OF**

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

- 1. HATCHERIES GENERALLY HAVE FAILED TO MEET THEIR OBJECTIVES.**

- 2. HATCHERIES HAVE IMPARTED ADVERSE EFFECTS ON NATURAL RESOURCES**

- 3. MANAGERS HAVE FAILED TO EVALUATE HATCHERY PROGRAMS**

- 4. RATIONALE JUSTIFYING HATCHERY PRODUCTION WAS BASED ON UNTESTED ASSUMPTIONS**

- 5. SUPPLEMENTATION SHOULD BE LINKED WITH HABITAT IMPROVEMENT**

- 6. GENETIC CONSIDERATIONS HAVE TO BE INCLUDED IN HATCHERY PROGRAMS**

- 7. MORE RESEARCH AND EXPERIMENTAL APPROACHES ARE REQUIRED**

- 8. STOCK TRANSFERS AND INTRODUCTIONS OF NON-NATIVE SPECIES SHOULD BE DISCONTINUED**

- 9. ARTIFICIAL PRODUCTION SHOULD HAVE A NEW ROLE IN FISHERIES MANAGEMENT**

- 10. HATCHERIES SHOULD BE USED AS TEMPORARY REFUGES, RATHER THAN FOR LONG-TERM PRODUCTION**

20 KEY GUIDELINES

FROM

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

- 1. TECHNOLOGY SHOULD BE DEVELOPED AND USED TO MORE CLOSELY RESEMBLE NATURAL INCUBATION AND REARING CONDITIONS IN SALMONID HATCHERY PROPAGATION**
- 2. HATCHERY FACILITIES NEED TO BE DESIGNED AND ENGINEERED TO REPRESENT NATURAL INCUBATION AND REARING HABITAT...**
- 3. NEW HATCHERY TECHNOLOGY FOR IMPROVING FISH QUALITY AND PERFORMANCE NEEDS TO HAVE A PLAN FOR IMPLEMENTATION ... TO ASSURE ITS APPLICATION**

- 4. TO MIMIC NATURAL POPULATIONS, ANADROMOUS FISH HATCHERY PRODUCTION STRATEGY SHOULD TARGET NATURAL POPULATION PARAMETERS ... TO SYNCHRONIZE WITH ENVIRONMENTAL SELECTIVE FORCES ...**

- 5. TO MIMIC NATURAL POPULATIONS, RESIDENT FISH HATCHERY PRODUCTION STRATEGY SHOULD TARGET POPULATION PARAMETERS ... TO CORRESPOND WITH ADEQUATE FOOD AVAILABILITY AND FAVORABLE PREY TO MAXIMIZE THEIR POST-STOCKING GROWTH AND SURVIVAL**

- 6. SUPPLEMENTATION HATCHERY POLICY SHOULD UTILIZE AMBIENT NATAL STREAM HABITAT TEMPERATURES ...**

- 7. SALMONID HATCHERY INCUBATION AND REARING EXPERIENCES SHOULD USE THE NATAL STREAM WATER SOURCE WHENEVER POSSIBLE TO ENHANCE HOMESTREAM RECOGNITION**

- 8. HATCHERY RELEASE STRATEGIES NEED TO FOLLOW STANDARDS THAT ACCOMMODATE REASONABLE NUMERICAL LIMITS DETERMINED BY THE CARRYING CAPACITY OF THE RECEIVING STREAM...**

- 9. HATCHERY PROGRAMS SHOULD DEDICATE SIGNIFICANT EFFORT IN DEVELOPING SMALL FACILITIES FOR SPECIFIC STREAM SITES ...**

- 10. GENETIC AND BREEDING PROTOCOLS CONSISTENT WITH LOCAL STOCK STRUCTURE NEED TO BE DEVELOPED AND FAITHFULLY ADHERED TO ...**

- 11. HATCHERY PROPAGATION SHOULD USE LARGE BREEDING POPULATIONS TO MINIMIZE INBREEDING EFFECTS AND MAINTAIN WHAT GENETIC DIVERSITY IS PRESENT WITHIN THE POPULATION**

- 12. HATCHERY SUPPLEMENTATION PROGRAMS SHOULD AVOID USING STRAYS IN BREEDING OPERATIONS ...**

- 13. RESTORATION OF EXTIRPATED POPULATIONS SHOULD FOLLOW GENETIC GUIDELINES TO MAXIMIZE THE POTENTIAL FOR RE-ESTABLISHING SELF-SUSTAINING POPULATIONS ... ALLOWING SELECTION TO WORK BY DISCONTINUING INTRODUCTIONS**

- 14. GERM PLASM REPOSITORIES SHOULD BE DEVELOPED ...FOR APPLICATION IN FUTURE RECOVERY ... AND TO MAINTAIN A GENE BANK TO REINFORCE DIVERSITY AMONG SMALL INBRED NATURAL POPULATIONS**

- 15. THE PHYSICAL AND GENETIC STATUS OF ALL NATURAL POPULATIONS OF ANADROMOUS AND RESIDENT FISHES NEED TO BE UNDERSTOOD AND ROUTINELY REVIEWED**

- 16. AN IN-HATCHERY FISH MONITORING PROGRAM NEEDS TO BE DEVELOPED ON PERFORMANCE OF JUVENILES UNDER CULTURE ... TO ASCERTAIN IF BREEDING PROTOCOL IS MAINTAINING WILD STOCK GENOTYPIC CHARACTERISTICS**

- 17. A HATCHERY FISH MONITORING PROGRAM NEEDS TO BE DEVELOPED ON PERFORMANCE FROM RELEASE TO RETURN ...**

- 18. A STUDY IS REQUIRED TO DETERMINE COST OF MONITORING HATCHERY PERFORMANCE AND SOURCES OF FUNDING**

- 19. REGULAR PERFORMANCE AUDITS OF ARTIFICIAL PRODUCTION OBJECTIVES SHOULD BE UNDERTAKEN ...**

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

**KEY RECOMMENDATIONS
FROM**

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

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

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

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

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

**KEY FINDINGS & RECOMMENDATIONS
FROM**

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

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

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

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

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

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

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

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

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

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

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

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

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

**KEY RECOMMENDATIONS
FROM**

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

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

NEED TO GATHER 3 TYPES OF INFORMATION

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

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

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

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

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

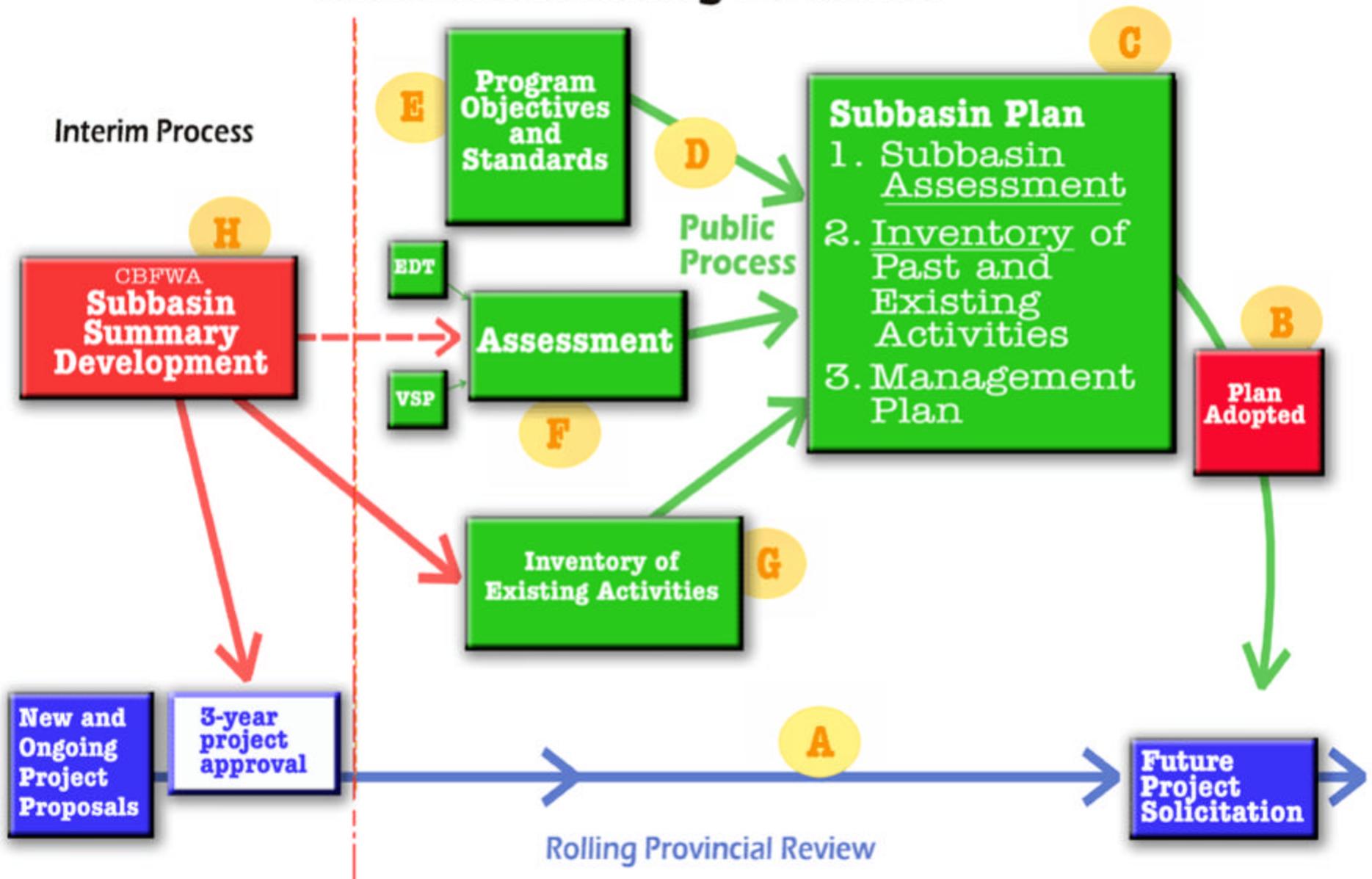
**THE DELIVERY OF DATA IN SUITABLE FORM
SHOULD BE A CONTRACTING REQUIREMENT**

Section 8. Status of Critical Items / Overview

Section 8A. Status of Critical Items / Overview

NWPPC

Subbasin Planning Overview

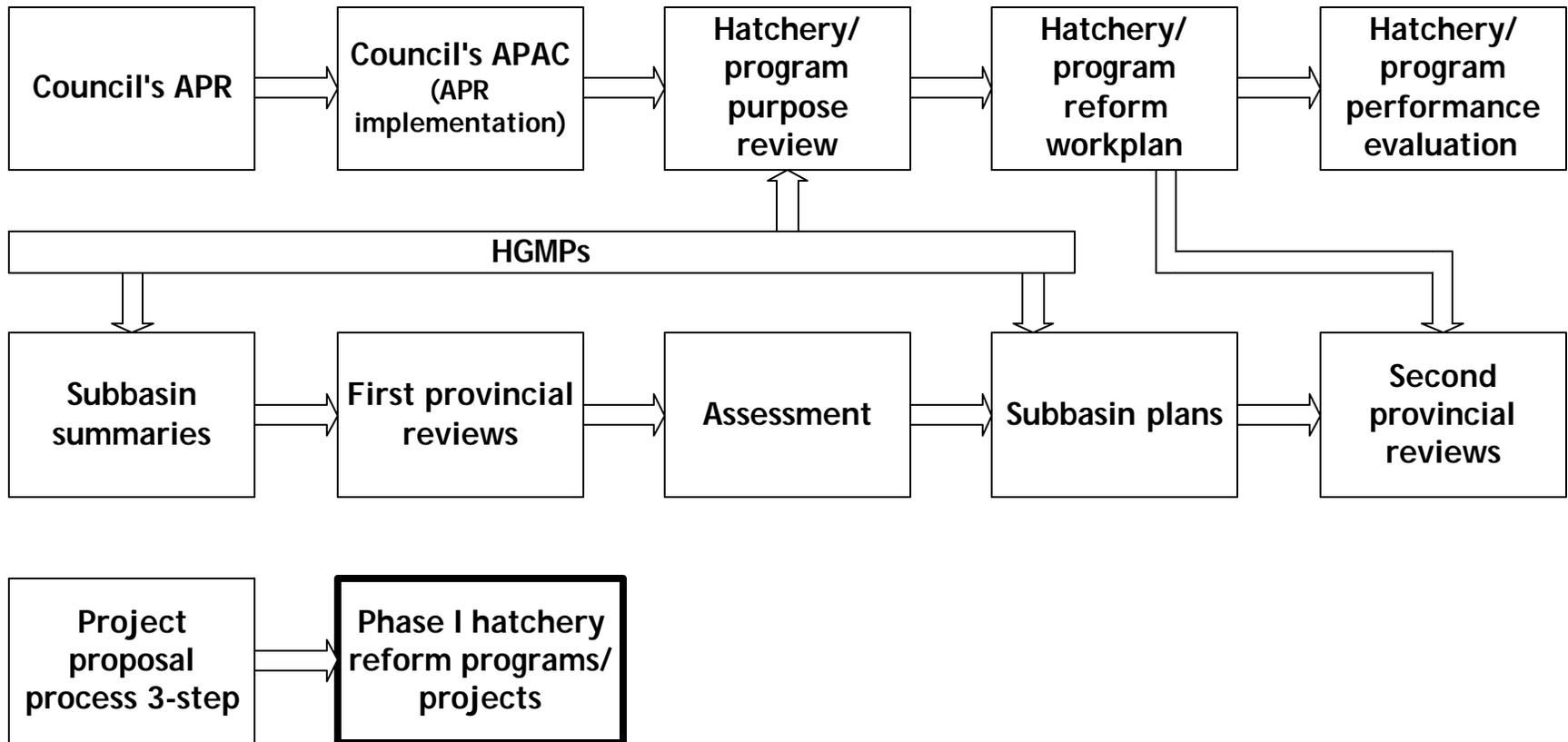


DRAFT DRAFT DRAFT Provincial Review Schedule

Task Name	2001					2002					2003					2004					2005																		
	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
Columbia Gorge	FY 2001-03					Submit					*FY 2004-06																												
Intermountain	FY 2001-03					Submit					*FY 2004-06																												
Mountain Columbia	FY2002-04					Submit					*FY 2004-06																												
Columbia Plateau						FY2002-04					Submit					FY 2005-07																							
Mountain Snake						FY2002-04					Submit					FY 2005-07																							
Blue Mountain						FY2002-04					Submit					FY 2005-07																							
Middle Snake						FY2003-05					Submit					FY 2005-07																							
Upper Snake						FY 2003-05										Submit					FY 2006-08																		
Columbia Cascade						FY 2003-05										Submit					FY 2006-08																		
Lower Columbia						FY 2003-05										Submit					FY 2006-08																		
Estuary						FY 2003-05										Submit					FY 2006-08																		
Mainstem						Rulemaking		FY 2003-05								Submit					FY 2006-08																		

The "submit" diamonds signify the last opportunity for a plan to be submitted to allow the Council adequate review time before the next provincial review begins.

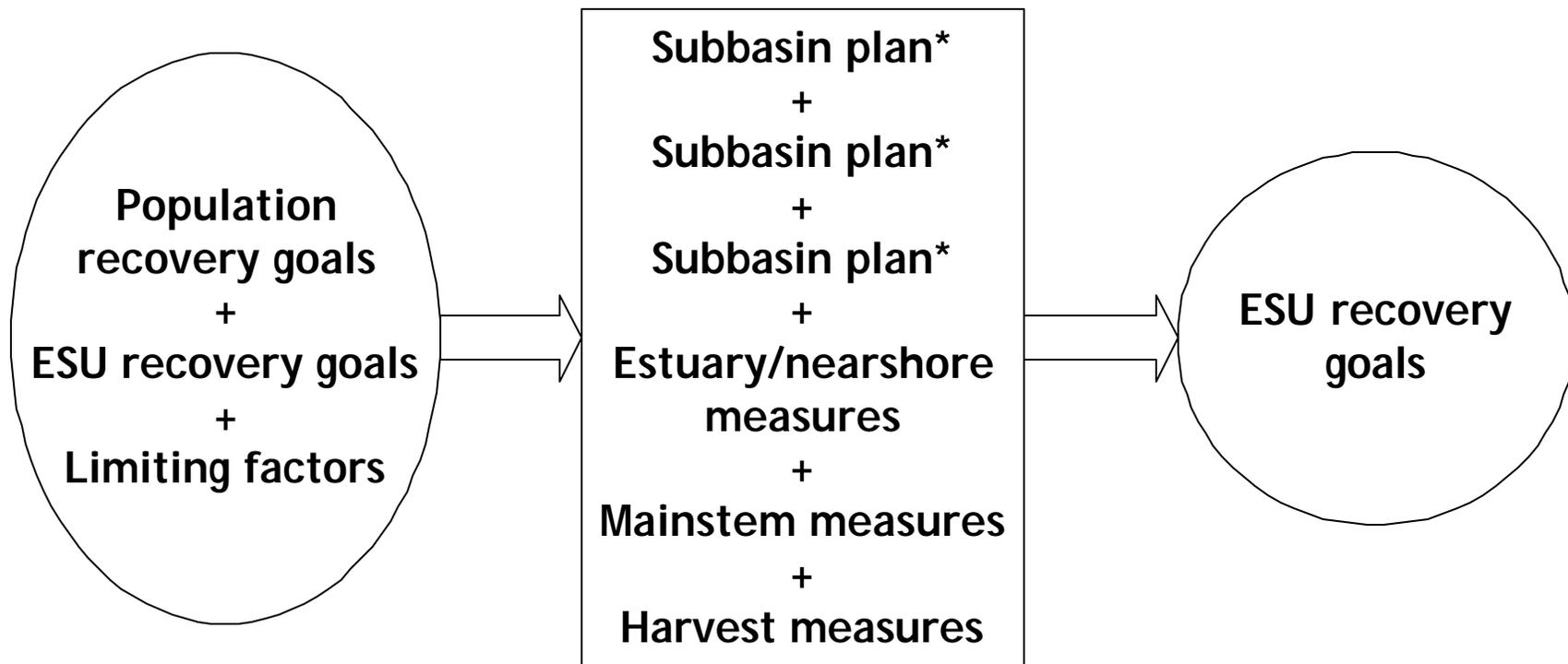
Council project approval process



Section 8B. Status of Critical Items / Overview

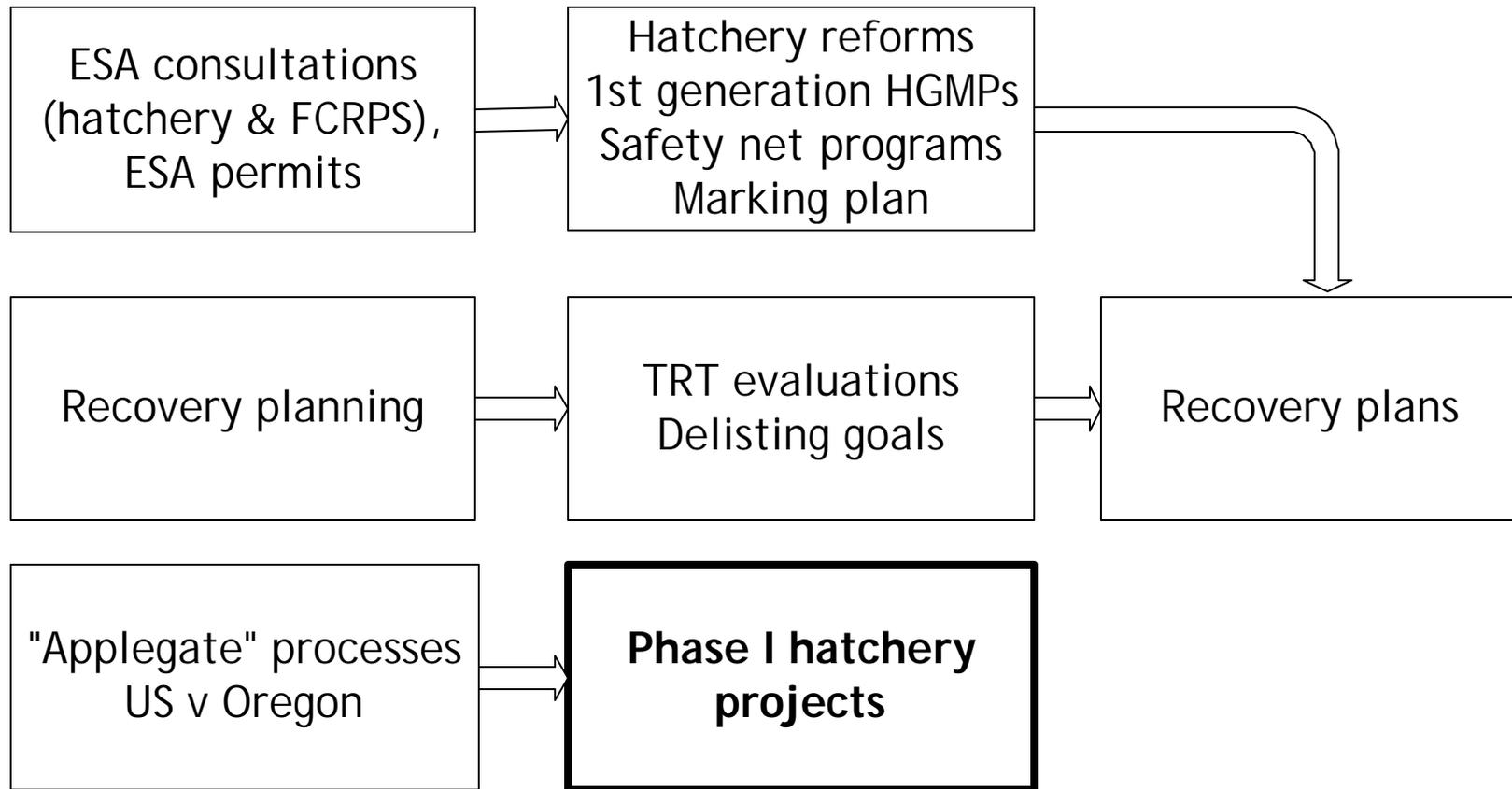
NMFS

NMFS Recovery Plan components



* Assumes subbasin plans will include primarily habitat and hatchery measures

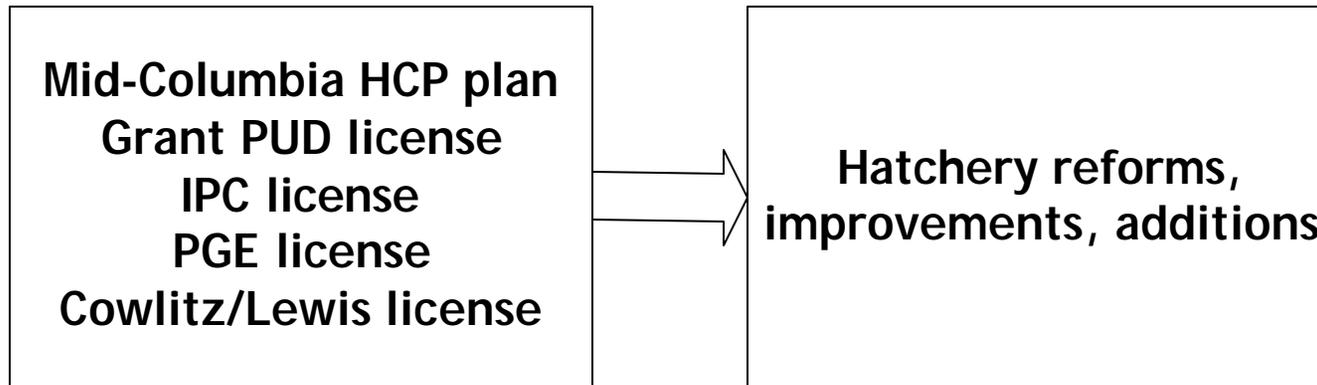
NMFS process



Section 8C. Status of Critical Items / Overview

USFWS and FERC

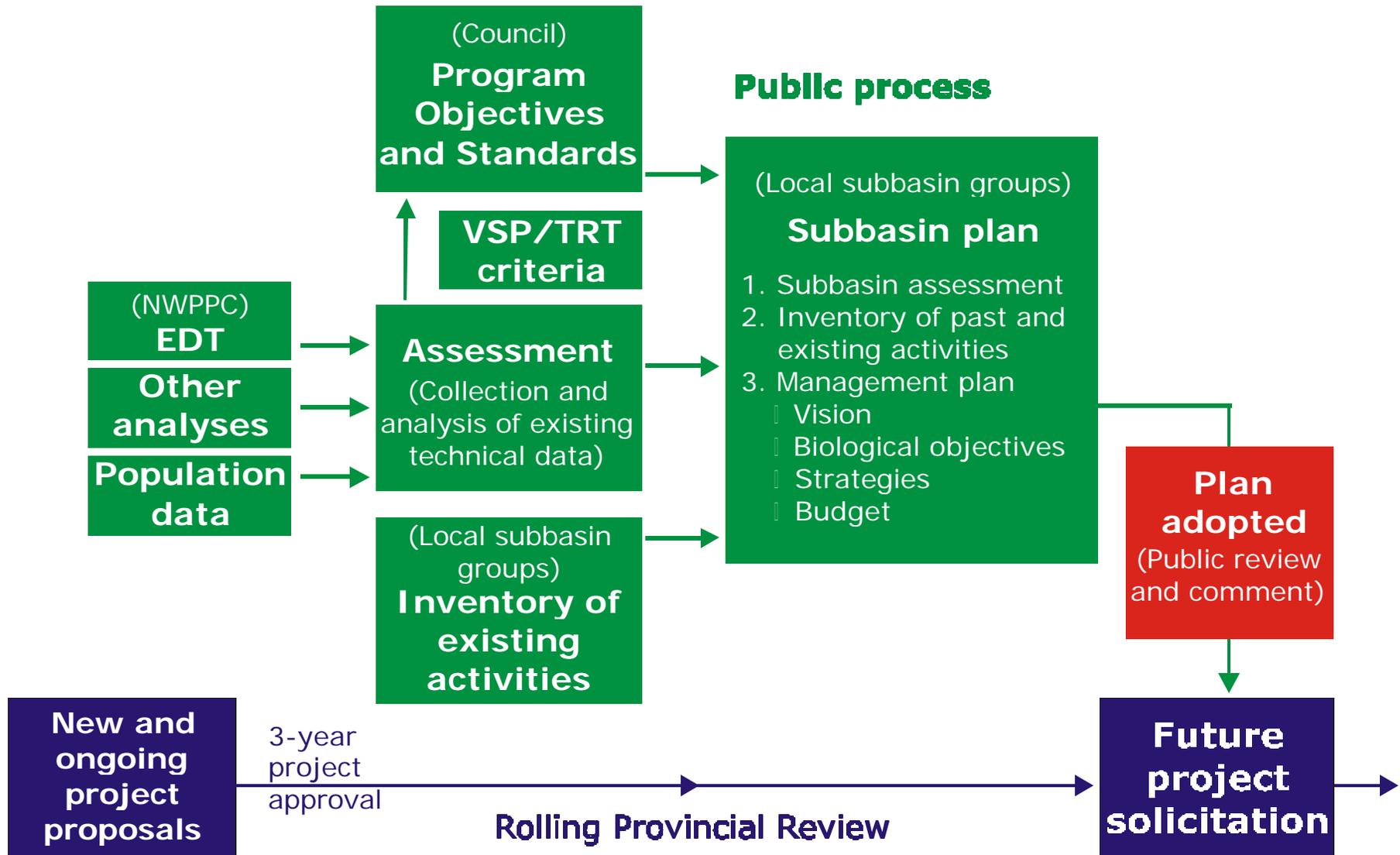
FERC process



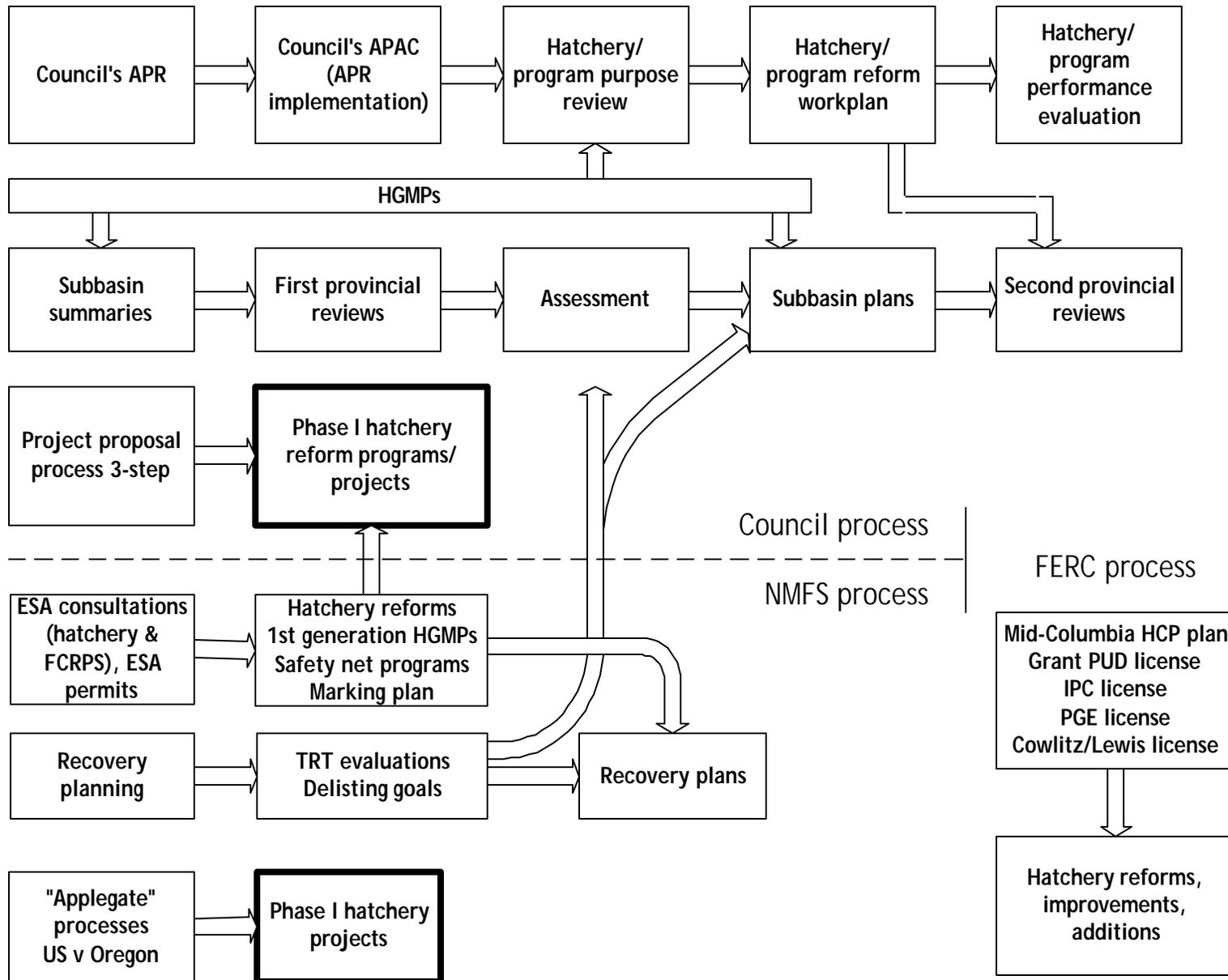
Section 8D. Status of Critical Items / Overview

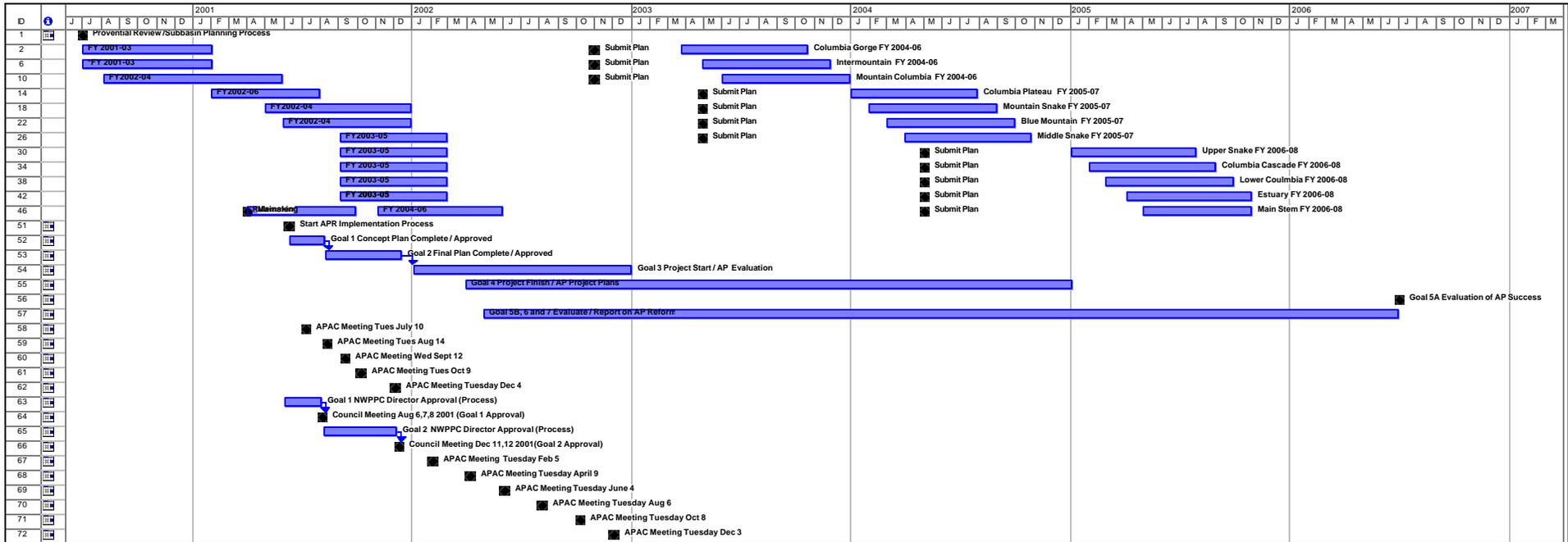
Integration of Pertinent Processes and APR

Integrated Subbasin Planning Overview



Integrated processes





Project: Povential Review schedule & Date: Tue 7/24

Task Progress Summary External Tasks External Milestone
 Split Milestone Project Summary External Milestone Deadline

Section 9. APR Implementation

Workplan, Schedule, Deliverables

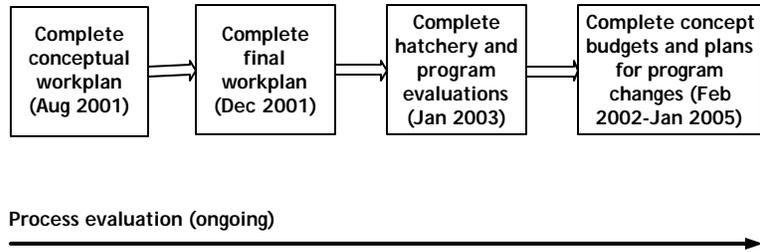
Artificial Production Review Workplan

July 10, 2001

Specific Objectives

- Identify facility or program purpose
- Evaluate programs for consistency with policies, scientific principles and legal requirements
- Define needed changes and revise programs as necessary
- Obtain funding for needed changes
- Communicate and evaluate progress

APAC workplan



APAC Workplan

- Goal One: Complete conceptual workplan (Aug 2001)
 - Develop approach and schedule
 - Complete concept proposal and budget
 - Council approval

APAC Workplan

- Goal Two: Complete final workplan (Dec 2001)
 - Refine staffing needs
 - Develop detailed workplan budget and procedures
 - Obtain Council approval including next step funding

APAC Workplan

- Goal Three: Complete hatchery and program evaluations (Jan 2003)
 - Hire contractors
 - Perform evaluations
 - Develop preliminary budget for identified changes

APAC Workplan

- Goal Four: Complete concept budgets and plans for program changes (Feb 2002- Jan 2005)
 - Work with subbasin and regional planning efforts
 - Develop final plans for facility and program changes
 - Finalize funding sources
 - Submit proposals

APAC Workplan

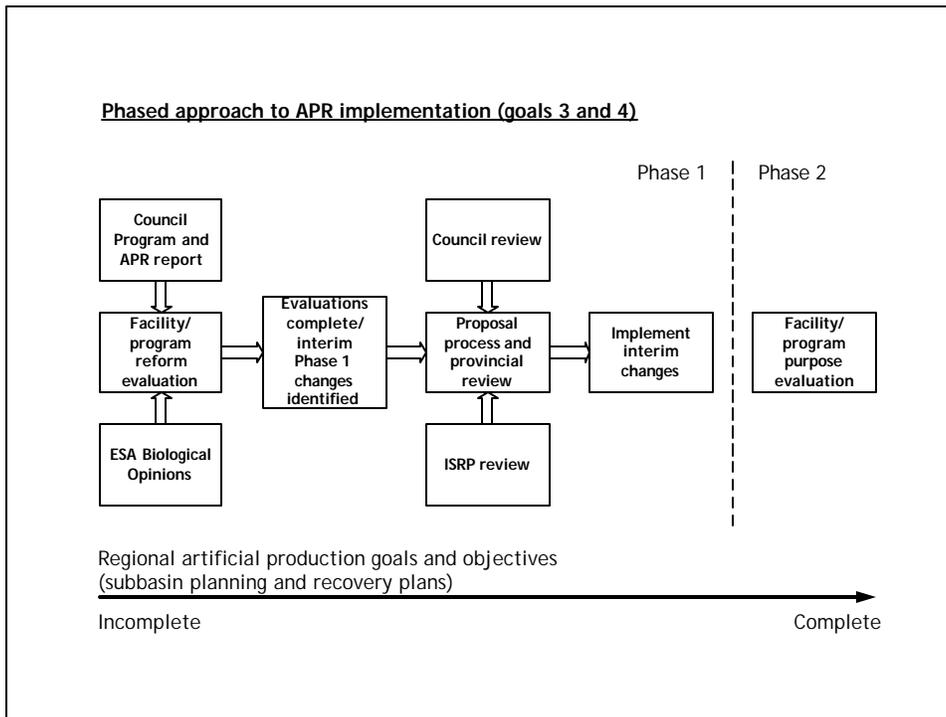
- Goal Five: Process evaluation (Ongoing)
 - Quarterly reports to Council on progress
 - Year 5 process evaluation on reform implementation
 - ISAB and IEAB reviews

Constraints

- ESA recovery plans
- Subbasin plans
- Regional production goals

How Evaluations Will Be Used

- Highlight needed changes
- Submit evaluations for use in subbasin planning
- Propose interim changes and funding needs to current programs
- Develop proposals for Council's provincial review or other funding process
- Provide preliminary cost estimate for regional reform



- ## Program Evaluation Process Phase 1
- Independent contractors working with APAC committee members
 - Evaluate all AP programs based on Council's F&W Program, NMFS Bi-Op, APR policies, legal requirements.
 - Use HGMPs, IHOT reports, Subbasin summaries, EDT, etc.
 - Reports completed in one year.

Program Evaluation Process Phase 2

- Artificial production programs will be re-evaluated in the subbasin and regional planning processes
- New subbasin and regional plans may change program purpose