

**FTC Cowlitz Hydroelectric Project**  
**FERC NO. 2016**  
**Fisheries Technical Committee**  
**Final Meeting Summary**  
January 5, 2010 from 9:00 AM – 3:30 PM  
Mayfield Office, Silver Creek, Washington

**Members Present**

Michelle Day	NMFS
Brett Swift	American Rivers
Pat Frazier	WDFW
George Lee	Yakama Nation
Mark LaRiviere	Tacoma Power
Brad Caldwell	WDOE

**Other Attendees**

Mike Kohn	LCPUD
Bill Iyall	Tacoma Power
Ed Meyer	NMFS
Bill Bosch	Yakama Nation
John Serl	WDFW
Julie Henning	WDFW
Marc Wicke	Tacoma Power
Steve Fischer	Tacoma Power
Tom Martin	Tacoma Power
Debbie Young	Tacoma Power
Pat McCarty	Tacoma Power
Tom Santee	Insights Northwest
Lyn Wiltse	PDSA Consulting

**Future FTC Meeting Dates (first Tuesday of each month)**

February 2, March 2, April 6, May 4, June 1, July 6, August 3, September 7, October 5, November 2, December 7

Default time: 9:00 AM to 3:00 PM; Default location: Mayfield

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**Agenda Item: Downstream Team Update**

**Presenter: Pat McCarty**

Pat reported on the meeting at the FERC Portland office on December 10. Tacoma gave a presentation on their intentions regarding testing and plans for the future relative to downstream passage at Cowlitz Falls Dam. LCPUD then gave a presentation relative to dam safety. FERC then said that any solution at CF Dam that impacts spillway capacity needs to be removable within one hour (due to a PMF of 200K cfs). Except for the FERC dam safety staff this was news to all attending that meeting.

When LCPUD said they were not going to remove the debris barrier until July 1, Tacoma said that it would not be necessary as they already have data after that period of time and it would impact operations of the behavioral guidance structure (BGS) planned for 2010. LCPUD is awaiting clarification from FERC re our ability to install the baffle panels this year. Tacoma Power will not be installing the screen or weir box this year.

Bill reported that we will be able to test the BGS this year. The idea is to direct the majority of the fish to the north bank (where approximately 80% of the fish now orient). He distributed a set of plans that show the design of the proposed BGS. Marc is working on a monitoring plan for this. A screen will be mounted in the top section of the BGS allowing for some surface flow to move through the screen area in hopes of keeping the fish from diving and going beneath the BGS. Ed reminded us that the screen will likely clog up unless cleaned regularly.

There will be a small fish collector on the downstream end of the BGS to allow us to track the effectiveness of the BGS. We will likely monitor the performance with radio or acoustic tags.

Tacoma will work collaboratively with team members and LCPUD to finalize the designs and we will discuss this again at our next meeting.

The Downstream Team will discuss the overall schedule (including what work products will be provided by when) and give us an update at our next meeting. Pat and Michelle reported feeling like the infrequent meetings of this team have adversely impacted the momentum and collaborative nature of the team. Tom reported that we are attempting to schedule these meetings as often as schedules allows. There was a request for more updates to the team members from Chick and Al's work.

**Action Items:**

- Marc will send out list of questions to be addressed by the evaluation plan by Jan. 8 for all to review.
- All will review the questions and give feedback/suggestions/assumption/available data to Marc by Jan. 15.
- Marc will arrange conference call after Jan. 15 re feedback on initial questions and how they will be integrated into the plan.
- Marc will coordinate Tacoma's proposed monitoring evaluation plan (with input from the Downstream Team) and propose it at the February FTC meeting.
- Tom will email members of the Downstream Team and ask them to coordinate schedules for additional meetings. He will coordinate the formation of questions that remain regarding each option and how we move forward, keeping in mind technical feasibility. The aim will be to distribute this at the February FTC meeting.
- Tacoma, in coordination with the Downstream Team, will produce a document that reflects the range of downstream alternatives that have been discussed, key questions and uncertainties that need to be addressed, the plan and schedule

for addressing the key questions and uncertainties, and any consensus recommendations of the Downstream Team.

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**Agenda Item: Supplemental Collection for 2010**

**Presenter: Marc Wicke**

Marc reported that the recommendations suggested at the last meeting are being operationalized. He didn't receive any additional feedback on suggested methods of catching fish. They will be using a special seining net this year. The boat is being refurbished and will have a new motor. It should be back in operation in the next few weeks. The supplemental collection will extend from April 15 through mid September. Merwin traps usually are deployed around July 10.

**Action Items:**

- Mike will let Marc know about drawdown dates.
- 

**Agenda Item: Public Involvement**

**Presenter: Tom Santee**

At the last public meeting we distributed a questionnaire created by Tacoma Power and WDFW on hatchery production. It was designed to allow people interested in this subject to weigh in. Results, including the written comments, were posted on the Cowlitzfish.net website on December 14. All documents and presentations from the last public meeting along with audio were also posted to the Cowlitzfish.net website.

All 76 questionnaire respondents fish on the Cowlitz River. We walked through the results of the questionnaire. These results will help us understand their point of view and help us know what to address in future public meetings. We will seek to deliver relevant information to this community in a variety of ways and a variety of venues. This may include a Q&A to address basic questions and concerns. We would also distribute additional questionnaires at future meetings.

**Action Items:**

- Pat and Mark will draft a Q&A and send it out for FTC review. At that time we will discuss how best to disseminate this additional information.
  - By January 15 Tom S will draft recommendations for next steps. We will make decisions on this at our February meeting.
- 

**Agenda Item: Productivity Testing**

**Presenter: Mark L**

We discussed the productivity abundance numbers and how it might make sense to gather data from the productivity test in each basin for 5 years to evaluate whether each

population is self-sustaining. If we did this we would set the abundance number based on those basin-specific results. Pat will set up a meeting with Ray Beamesderfer and others to flesh out how we might carry out this approach. We then agreed to carry over the action items from the previous meeting (see below).

**Action Items:**

- Pat and Ray will work with Tacoma and NMFS to flesh out Ray's proposal and send it out for all to review prior to our next meeting. Discuss if we need to implement additional juvenile collection actions.
  - Mark L will work with Brett to update the table with edits and post for review prior to our next meeting.
  - Mark L will work with Michelle to revise the accompanying narrative to address the five questions listed in the December 2009 FTC meeting summary. Include also rationale for doing testing in the upper basin.
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**Agenda Item: Yakama Presentation**

**Presenter: Bill Bosch**

Bill walked us through a PowerPoint presentation on Yakima Basin Salmon Restoration activities. It will be posted to the FTC web page.

**Action Items:**

- Michelle to follow up re productivity data related to acclimation ponds.
  - Mark to post Bill's presentation to FTC web page.
  - Mark will draft an issue paper on satellite rearing facilities and post it by Jan. 23.
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**Agenda Item: Review FHMP Schedule**

**Presenter: Mark L**

Mark distributed an updated version of the schedule that included the additional topics suggested at the last meeting, including a public workshop and 2 month public review period. He also pushed out the schedule by a year as we had discussed.

We discussed the process for being able to successfully update the FHMP in a timely fashion. After some discussion we agree to address the relevant issues within a 3 meeting (month) timeframe and then give FTC consensus decisions to the consultants to draft as the revised FHMP. We will determine how best to incorporate public reviews. Quarterly public reviews might be a viable option.

**Action Items:**

- Mark L will revise the schedule to reflect discussions.
- Mark L will help us tee up issues for each FHMP topic by providing an issues paper a week prior to the meeting where the issue is to be initially discussed.

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**Agenda Item: Review / Revise FTC Protocols****Presenter: Lyn**

We deferred this topic.

**Action Items:**

- All to review existing protocols (last reviewed May 8, 2008).
- 

**Agenda Item: Update Status of December 1, 2009 Meeting Action Items****Presenter: Lyn****Action Items:**

- Tom will call Erich Gaedeke and discuss our request for a one year (at least) extension for the revision of the FHMP , and prepare a draft for FTC members for review before submitting to FERC.
  - Marc W will post a graph relating thermocline temperature with run timing in Riffe Lake on the FTC website.
- 

**Agenda Item: Approval of December 1, 2009 Meeting Summary**

We discussed some edits to the December 1, 2009 draft meeting summary. We will defer approval until the Feb. 2 meeting.

**Action Item:**

- All to send suggested edits for the December 2 meeting summary to Lyn prior to January 20<sup>th</sup>. After that date send the proposed edits to Mark L.
- 

**Agenda Item: Meeting Evaluation****Well Done:**

- Interesting presentation by Bill Bosch from Yakama Nation
- Good, frank discussions on many topics
- Good discussions around next steps

**Do Differently:**

- Started late and ran late
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The meeting was adjourned at 3:30 pm.

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**Meeting Handouts**

- Agenda for January 5, 2010 FTC meeting

- Draft December 1, 2009 FTC meeting summary
  - Preliminary design documents for 2010 CFD Downstream Smolt Collection
  - Results: October 2009 Questionnaire Regarding Cowlitz Hatchery Production Levels
  - FHMP Update: Development Plan and Consultation Schedule, Dec. 22, 2009
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### **Topics for February 2, 2010 FTC Meeting**

- 9:00 – 9:30 Welcome / Review Agenda / Check-In
- 9:30 – 10:30 FHMP Schedule Update
- 10:30 – 11:30 Productivity Testing
- 11:30 – Noon Tee Up: Satellite Rearing Facilities
- Noon – 1:05 Our Usual Working Lunch
- 1:05 – 1:20 Update from Downstream Team
- 1:20 – 1:45 Plan for next Public Meeting
- 1:45 – 2:00 Update Status of January 5 Meeting Action Items
- 2:00 – 2:15 Approval of December 1 and January 5 Meeting Summaries
- 2:15 – 2:30 Meeting Evaluation and set March 2, 2010 Meeting Agenda

### **Action Items:**

- All will review Credit Program posted on website in preparation for discussion on this topic at our Next meeting.
- Mark will send out list of issues to tee up Credits discussion.

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**Members Present**

Michelle Day	NMFS
Brett Swift	American Rivers
Pat Frazier	WDFW
Mark LaRiviere	Tacoma Power
Brad Caldwell	WA DOE
Tim Romanski	USFWS

**Other Attendees**

Shannon Wills	Yakama Nation
Ed Meyer	NMFS
Rich Turner	NMFS
John Serl	WDFW
Julie Henning	WDFW
Tom Martin	Tacoma Power
Debbie Young	Tacoma Power
Marc Wicke	Tacoma Power
Bill Iyall	Tacoma Power
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**Announcements**

New Technical Rep: Shannon Wills, Fisheries Biologist and Technical Rep for George Lee, Yakama Nation, was introduced. She will be attending these meetings and offering technical support as directed by George. Welcome, Shannon!

Large Woody Debris Draft Report: Mark reported that the draft interim 5-year report for LWD has been posted to the FTC website. It is, at this point, still incomplete. It will be replaced with a more complete draft. Mark will send out an email notifying all when it has been posted and the start of the 30 day review.

Update on Extension Request: Tom M talked with Erich (FERC) about our intention to file a request for extension on filing the FHMP. Erich indicated that FERC would likely

support such a request. In the letter requesting the extension, Tom will indicate that until the updated plan is adopted, FTC recommendations will continue to follow the intent of the approved FHMP. He will attach the FHMP schedule to the letter. After some discussion we agreed to ask for a 14 month extension.

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**Agenda Item: Productivity Testing**

**Presenter: Mark L and Pat F**

Pat, Mark, and Michelle met with Ray Beamsderfer at WDFW Offices in Vancouver on January 27, 2010 to discuss this. Pat distributed a handout that integrated their feedback. They discussed a methodology for determining the appropriate abundance numbers to be used to determine if upper Cowlitz and Tilton winter steelhead populations are self-sustaining.

Ray proposes using the Population Risk Viability Model that includes the following three factors to determine the extinction risk and what the number required for a self-sustaining population would be.

1. Smolts per adult (freshwater productivity measure)
2. FPS (Fish Passage Survival)
3. SAR (Smolt to Adult Return)

Pat reviewed the various assumptions and marking methodologies discussed during the meeting with Ray. The viability goal is high for the upper Cowlitz and medium for the Tilton, which is consistent with previous decisions by the FTC.

Concern was expressed about how ocean conditions which can vary widely would be integrated into the model. Michelle said that this model makes sense biologically.

We agreed that we will need to mark the steelhead coming out of the upper basin this season. For the productivity test we need to ensure that the marks are separated five years from now. We want to avoid fin clipping to the extent possible.

**Action Items:**

- Pat will send out the handout electronically to all.
- WDFW will meet with Tacoma to determine the appropriate marking protocol and update us on this at our March 2 meeting. They will also discuss how to mark any steelhead smolts from the supplemental collection.
- Pat will talk with Ray about coming up with completed matrices and defining the data inputs for the upper Cowlitz and the Tilton River basins to determine the extinction risk and the associated adult abundance number. The aim would be for us to have sufficient data about this to make a decision at our March meeting.

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**Agenda Item: Tee Up: Satellite Rearing Facilities**



## Presenter: Mark L

Mark distributed a white paper including a suggested approach for this topic. It includes background on how this topic is addressed in the Settlement Agreement, the license itself, and the FHMP, and supporting rationale. He asked for feedback from FTC members regarding this format and its sufficiency for use for future topic white papers. It was suggested that all references be cited in this and future white papers. It was also suggested that these papers focus on associated issues with each topic along with a summary of FHMP rationale.

He walked us through the paper. The FERC order that modified the FHMP calls for the licensee to develop three juvenile rearing facilities in the upper basin. We need to find a way to include this in the FHMP and define appropriate goals for doing this.

Our goal is to increase NOR adult returns and expand the spatial distribution of spawning in the basin. The limiting factor is FCE. There was a discussion of rearing facilities that compensate for the lack of FCE and provide more adults to the upper basin. The approach would be to acclimate juveniles in the upper basin and then transport those juveniles downstream and release them below the barrier dam. Once our FCE improves we could release fish (spring Chinook) directly from the acclimation ponds.

### Associated Issues:

- Species (spring Chinook and/or coho)
- Life history stage (fry, fingerlings, smolts or kelts)
- Location
- Duration of time at acclimation site (if temporary sites they could be moved after a period of time).
- In-season duration (short vs. long term)
- Short vs. long-term goals. When we improve FCE and get good recovery, the program may change.
- Release number
- What is the actual need from a recovery standpoint?
- Definition of “satellite rearing facility” (much depends on life history stage)
- Definition of “juvenile”

### Data Needs:

- Data on adult distribution (spawning ground and radio tagging) - *John*
- Info related to hatchery supplementation and recovery (It may not be appropriate to use hatchery facilities for NOR stock activities.) – *Mark, Rich*
- Site-specific information where there is also data on NOR fish (introducing vs. supplementing stocks) – *Mark, Rich*
- Info on successful programs of establishing stocks through the use of juveniles – *Mark, Rich*
- Potential sites (consider water sources, etc.) Some past surveys may inform us here. – *Mark, Wolf*

**Action Items:**

- All will send relevant data to Mark by noon Feb. 16.
  - Mark will post all info on FTC website by COB Feb. 16 along with an email notification of what has been posted and associated headings.
  - Lyn will send info to Shannon on how to access this site.
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**Agenda Item: Update on Downstream Collection****Presenter: Marc Wicke**

Marc sent out a list of objectives for biological monitoring to John Serl, Mike Kohn, and Al Giorgi and incorporated changes into the 2010 request for quotes based on their feedback. This was based on changes necessitated by dam safety. Marc also set up a conference call to discuss these. The request for quotes was sent out Jan. 28. Their responses are due by February 11.

We will be evaluating whether a Behavioral Guidance Structure (BGS) will effectively guide (with 20 cfs attraction flow) coho, Chinook, and steelhead from the south shore to the north shore in the Cowlitz Falls Dam forebay. It will also let us know if large numbers of fish are circumventing the BGS at various locations along the structure.

The goal is to have the BGS installed and operational by April 15, 2010.

Mike said USGS needs to if there is an opportunity to do some sharing of studies by the end of February. LCPUD will also be buying radio tags for a reservoir survival study this season. They will coordinate with Tacoma on this.

**Action Items:**

- Mike will send out LCPUD's draft reservoir survival study plan. This would be a 2-year plan.
  - Bill will send the plans for the whole 2010 collection of drawings to Ed to review by Feb. 5.
  - All will get any additional input relative to the biological monitoring to Marc ASAP.
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**Agenda Item: Update from Downstream Team****Presenter: Tom Martin**

Tom reported that the Downstream Team has not met since the last FTC meeting. They plan to meet on Feb. 9 and also on Mar. 17.

The DST will, at their next meeting discuss the plan for the 2010 studies and all remaining issues. This will include defining all (including non-biological) monitoring to be

implemented in 2010. The complete plan for the BGS, the floating weir, and any associated monitoring being proposed will be provided to the FTC for their review after it has been agreed to by the DST.

At that meeting the DST will also review, discuss, and finalize the biological assessment input. They will also discuss the schedule and draft remaining (unresolved) issues associated with the various alternatives including the dam safety limitations. A summary list of these will be sent out the FTC by Feb. 23. They will also set up additional meeting dates.

At our March 2 meeting FTC members will provide feedback on the plans. This feedback will be discussed by the DST at their March 17 meeting.

**Action Items:**

- Tom M will give Shannon access to the Downstream Team website.
- Tom M will post details of the full plan for 2010 to the FTC website by Feb. 23. He will email the FTC when this has been done.
- Tom M will send results of DST meeting to FTC members by Feb. 23.

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**Agenda Item: FHMP Schedule Update**

**Presenter: Mark L**

Mark distributed an updated FHMP plan schedule. It was based on a 12 month extension of the schedule. We discussed the need for two extra months and agreed to ask FERC for a 14 month extension from the current due date. The 14 month extension would translate to May 2, 2011. We also discussed the order of the issues and the three meeting process: present an issues paper prior to the initial meeting where we tee up the topic, next meeting to discuss the topic thoroughly, and the 3<sup>rd</sup> meeting to come to consensus on a recommendation relative to that topic. The new FHMP schedule provides for time at the end to resolve any outstanding issues.

We also discussed the process of the actual drafting of the updated FHMP. Mark reported that Lars Mobernd (who drafted much of the initial FHMP) is available to draft the update. We need to figure out how to best get him up to speed on our current process and our plans for the updated FHMP.

**Action Items:**

- Mark will adjust the schedule to reflect the 14 month time frame.
- All will give feedback to Mark about the sequencing and length of time for each topic.
- Michelle will investigate setting up web-based meetings where all could view and discuss a shared document between FTC meetings to help facilitated

discussions around issues that require more time than time allotted to it during actual FTC meetings.

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**Agenda Item: Steelhead Genetic Study**

**Presenter: Pat Frazier**

Pat reported that WDFW just completed the draft report for 2008 and 2009. They submitted the draft report to Tacoma on Feb 1. After they receive comments from Tacoma, they will share the report with the FTC. Results were consistent with last year's findings. Pat reported that there are management implications for steelhead.

**Action Items:**

- Pat will share the data after Tacoma reviews the draft report.
  - Pat will outline management implications to share with the FTC by Feb. 23.
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**Agenda Item: Plan for Next Public Meeting**

**Presenter: Tom Santee**

Tom S distributed his recommendations for follow-up to public questionnaire responses. Mark distributed a list of FAQs.

Tom's recommendation is to hold the next public meeting in Morton on March 18 starting at 6:30 and concluding by 8:30. Potential topics: Productivity testing, FHMP revision update, 2010 Downstream Team plans. This would allow the public to come up to speed on FTC activities and allow them also to raise their issues.

Additionally, April, August, and November are the tentative months scheduled on the FHMP revision schedule.

Tom has listed the questions based on how respondents answered the questionnaire we distributed at the end of the last public meeting. He asked for FTC feedback.

**Action Items:**

- Tom S will arrange the facility and send out notification of the meeting to the public.
  - FTC members will reserve the date of the March 18 public meeting.
  - By Feb. 9 FTC members will send Tom S their feedback on the Draft questions for the Cowlitz fisheries FAQ (which will be posted to the cowlitzfish.net website). Also write draft answers to any questions you like.
  - By Feb. 16 Tom S will send out final list and draft answers to all for review.
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**Agenda Item: Review / Revise FTC Protocols**

**Presenter: Lyn**

We deferred this topic.

**Action Items:**

- All to review existing protocols (last reviewed May 8, 2008).
- 

**Agenda Item: Update Status of January 5, 2010 Meeting Action Items**

**Presenter: Lyn**

**Action Items:**

- We agreed that Marc used the protocol described above rather than the specific set of action items listed on p. 2 of these notes.
  - Re: the 5<sup>th</sup> bullet at the bottom of p. 2, the DST did not meet since the January meeting and therefore nothing was distributed to FTC members on this in advance of this meeting.
  - P. 3: the scheduled maintenance drawdown has been postponed for a year.
  - P. 4: Delay Mark L action item to work with Michelle on the narrative for the productivity testing.
  - Michelle still needs to follow up re productivity data related to acclimation ponds
  - Marc W will post a graph relating thermocline temperature with run timing in Riffe Lake on the FTC website.
- 

**Agenda Item: Approval of December 1, 2009 and January 5, 2010 Meeting Summaries**

We approved the December 1, 2009 and January 5, 2010 meeting summaries. The January meeting summary will be accepted pending approval by George Lee. Both sets will be posted to the public website.

**Action Item:**

- Shannon will review edits with George and let Lyn and Mark know if he has any edits to the December meeting summary.
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**Agenda Item: Meeting Evaluation**

**Well Done:**

- Welcome Shannon!
- Good discussions
- Good attendance

**Do Differently:**

- Got started 15 minutes late
  - Need full FTC member attendance for whole meeting
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The meeting was adjourned at 3:00 pm.

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**Meeting Handouts**

- Agenda for February 2, 2010 FTC meeting
  - Edited Drafts of December 1, 2009 and January 5, 2010 FTC meeting summaries
  - FHMP Update: Development Plan and Consultation Schedule, 1/12/2010
  - Upper Cowlitz and Tilton Productivity Test Abundance Target – FTC Subgroup Meeting notes, 1/27/2010
  - Draft White Paper: Cowlitz Complex, Satellite Rearing Facilities
  - Tom Santee Recommendations for follow-up to public questionnaire responses, Jan. 15, 2010
  - Draft Questions for Cowlitz Fisheries FAQs, Jan. 26, 2010
  -
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**Topics for March 2, 2010 FTC Meeting**

- 9:00 – 9:30 Welcome / Review Agenda / Check-In
- 9:30 – 11:30 Update from Downstream Team
- 11:30 – Noon Our Usual Working Lunch
- Noon – 1:05 Productivity Testing (review matrices)
- 1:05 – 1:10 FHMP Schedule Update
- 1:15 – 1:45 Review Satellite Rearing Materials (in preparation for discussion at our April meeting)
- 1:45 – 1:55 Public Communications Update
- 1:55 – 2:05 Review FTC Operating Protocols
- 2:05 – 2:10 Update Status of February 2 Meeting Action Items
- 2:10 – 2:15 Approval of February 2 Meeting Summary
- 2:15 – 2:30 Meeting Evaluation and set April 6, 2010 Meeting Agenda

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**Other Attendees**

Bob Rose	Yakama Nation
Ed Meyer	NMFS
Rich Turner	NMFS
John Serl	WDFW
Tom Martin	Tacoma Power
Debbie Young	Tacoma Power
Bill Iyall	Tacoma Power
Steve Fischer	Tacoma Power
Joe First	LCPUD
Tom Santee	Insight Northwest
Al Giorgi	BioAnalysts
Chick Sweeney	AECOM
Lyn Wiltse	PDSA Consulting

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**Announcement**

Michelle will be on special assignment and will miss our next two meetings.

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**Agenda Item: FHMP Schedule Update:**  
**Presenter: Tom M**

Tom distributed an updated version of the schedule. It shows the satellite rearing discussion pushed out to the April meeting. The extension request (until May of 2011) has been filed with FERC. The annual FHMP report due date has been requested to be permanently changed to May 15. This will allow for sufficient time to incorporate data from the WDFW annual evaluation report.

We reviewed the schedule. There may also be issues that need to be designated to be dealt with separately. We will call these out and list them in a “raceway” (vs a parking lot) along with a specific strategy to address the issue in a timely manner. This will involve offline work. Critical to staying on track is making sure we get all relevant information and then keep up with the information that is provided for review. We will put measures in place to help us stay on track. These will include email notifications that documents have been posted and also noting along with the agenda at the end of each FTC meeting summary which documents should be reviewed to yield fruitful discussions leading to timely decisions. We will also take care to record each decision clearly in the meeting summaries.

Tacoma Power is contracting with Lars Moberg to draft the revised FHMP. He is very familiar with the initial draft as he was very involved in the initial drafting of the document. He is optimistic that we can complete the revision according to the schedule. This will require work outside of FTC meetings.

**Action Items:**

- Lars will provide a draft outline of the revised FHMP one week prior to our next meeting.
- Tom M will ask Mark to add a *subject to change* asterisk to the FHMP Schedule and attach it to this meeting summary for posting.
- We will check to see if this 3-meeting strategy per topic strategy is working at our June meeting and make adjustments as necessary.

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**Agenda Item: Operating Protocols**

**Presenter: Lyn**

We reviewed and revised the May 8, 2008 version of the FTC Operating Protocols.

**Action Items:**

- Lyn will ask Tim Romanski if first Wednesdays of the month are still impossible for him as members would prefer to move back to meeting on the first Wednesday of each month.
- Lyn will update the protocols according to the discussion and send them out to all for review and approval. She will italicize the edits to make it easier for people to note the changes.

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**Agenda Item: Public Communications Update**

**Presenter: Tom Santee**

The Cowlitzfish.net website has been redesigned to be more user-friendly. The new design should make it easier to access information to help with the planning of fishing trips. It will also help people understand what is happening with fisheries planning.



Tom S is also working on FAQs re Cowlitz fisheries. He sent out a revised list to FTC members in the last week for their review. He will send out a new draft that includes some of the answers. The aim is to post this on the website once it is complete. Tom will make sure he hears from each FTC member that they are in agreement with the answers before it is posted. The draft list of questions will be distributed at the public meeting on March 18 where we will ask if there are additional questions the public would like to add to the list.

The next public meeting is being publicized for March 18 in Morton, from 6:30 – 8:30. The major topics slated for the meeting include productivity testing, downstream collection plans and actions, and the FHMP update process. There will be time for the public to comment on the draft questions for the FAQ at the end of the meeting. Tom S will post a sign stating that the meeting will be audio-recorded and will be posted to the website along with other documents cited at the meeting. Any unanswered questions will be handled according to the protocol.

Other public meetings this year are anticipated to occur in early August and November of this year. The FTC will review this schedule two months prior to verify the appropriateness of each date and to identify the topics to be discussed.

**Action Items:**

- All are to review the Cowlitzfish.net website and give feedback to Tom S. Please let him know of any links that would be helpful to provide on that website.
- Tom S will send out preliminary draft of FAQ with some answers for all to review by March 5.
- All are to plan to attend the next public meeting on March 18.

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**Agenda Item: Update from Downstream Team**  
**Presenters: Chick Sweeney and Al Giorgi**

Chick and Al walked us through a PowerPoint presentation that included the following:

- Base Alternatives and Unresolved Issues
- 2010 Issue Resolution Studies
- Status Report on Biological Evaluation of Alternatives
- Conceptual Design Report Completion Plan
- Schedule Update

Next Steps: The list of base alternatives and combinations of base alternatives will be evaluated and distributed prior to the March 17 Downstream Fish Passage Team (DFPT) Meeting. The draft biological evaluation model runs will be made by the DFPT members following the March 17<sup>th</sup> DFPT meeting, and discussed and finalized during the April 14 DFPT meeting.

The plan is to finalize the biological evaluation input at the March 17 DFPT meeting. The draft combined biological and engineering evaluation will be completed and distributed to the DFPT prior to the April 14 meeting.

Chick and AI will present a preliminary recommendation of alternatives to be carried to 90% design at the May 4 FTC meeting (pending BGS study results). The plan is for them to present the 90% report at the March 2011 FTC meeting.

Chick reviewed the schedule with us that showed that June of 2016 is when the new system should be operational.

**Action Items:**

- Tom M will ask Marc W to send out the draft study plan to FTC and DFPT members prior to the next Downstream Team meeting on March 17.
  - Tom M will see that the draft document, Juvenile Fish Collection Base Alternatives and Unresolved Issues, distributed today, is treated as a living document to identify how we are proceeding toward addressing each base alternative and associated issues. He will discuss with the DFPT how best to reformat the document to facilitate the ability of all to track issues, strategy to address them and their ultimate resolution.
- 

**Agenda Item: Productivity Testing (review matrices)**

**Presenter: Pat**

This item was deferred until the April meeting.

**Action Items:**

- Pat will see if he can get the completed data from Ray by March 23 and send it out for all to review.
- 

**Agenda Item: Review Satellite Rearing Materials**

We discussed the information that has been posted by Mark L on Feb 16 for FTC review on this topic. We will engage in a more detailed discussion of this at our April meeting and make a decision on it at our May meeting. This will be in keeping with the FHMP Update Schedule.

**Action Items:**

- Mark L will post the four documents her received from Bill Bosch ASAP:
  - Using Kelt Reconditioning to Increase the Abundance and Diversity of Steelhead Spawners in the Yakima River, Fast, Hatch, Bosch, Branstetter, Blodett, Newsome, and Johnston, 2009

- Estimating the Feasibility of Reestablishing a Coho Salmon Population in the Yakima River, Washington, Bosch and Newsome, Dunnigan, Hubble, Neeley, Lind, Fast, Lamebull, and Blodgett, 2006
  - Comparison of Life History Traits between First-Generation Hatchery and Wild Upper Yakima River Spring Chinook Salmon, Knudson, Schroeder and Busack, Johnston, Pearsons, and Bosch and Fast, 2005
  - Homing and Spawning Site Selection of Supplemented Hatchery and Natural Origin Yakima River Spring Chinook Salmon, Dittman, May, Larsen, Moser, Johnston, Fast, 2009
  - George will send Mark L links to other relevant documents on the BPA website.
  - Bob will provide any additional literature particularly related to coho.
  - Michelle will check to see what documents NMFS has relative to this subject.
- 

**Agenda Item: Update Status of February 2, 2010 Meeting Action Items**

**Presenter: Lyn**

**Action Items:**

- John talked with Mark L about the marking protocols for the productivity testing. They are all currently being marked with a blank CWT at the Mayfield facility. They will discuss this with Michelle re the ESA permitting requirements and give us an update at our next meeting.
  - Michelle found that NMFS has several subscriptions to Go-To Meeting.
  - Pat reported that the Genetics Study report should be complete by March 10. He will email it to Lyn for distribution to FTC members.
  - Pat will outline management implications of the results of the Genetics Study to share with the FTC ASAP.
  - Pat will send Lyn the draft study to distribute by March 5.
  - Tom S will send out FAQ with draft answers ASAP.
- 

**Agenda Item: Approval of February 2, 2010 Meeting Summary**

We approved the February 2, 2010 meeting summary with minor edits.

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**Agenda Item: Meeting Evaluation**

**Well Done:**

- Got out early
- Presentation from Downstream Team and handouts
- Worked through some concepts – listened for understanding
- Welcome to Bob Rose!

**Do Differently:**

- Bring dark chocolates

- Missed Shannon, et al
- 

The meeting was adjourned at 2:18 pm.

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### **Meeting Handouts**

- Agenda for March 2, 2010 FTC meeting
  - Draft of February 2, 2010 FTC meeting summary
  - FHMP Update: Development Plan and Consultation Schedule, 2/24/2010
  - Cowlitz River Project Documentation Fish Passage Update Presentation by Al Giorgi, Ph.D. and Chick Sweeney, P.E.
  - Cowlitz Hydroelectric Project Proposed 2010 Issue Resolution Studies
  - Cowlitz Hydroelectric Project Juvenile Fish Collection Base Alternatives and Unresolved Issues Studies
- 

### **Draft Topics for April 6, 2010 FTC Meeting**

- |               |   |
|---------------|---|
| 9:00 – 9:30   | Welcome / Review Agenda / Check-In  |
| 9:30 – 10:00  | Public Communications Update<br>Evaluation of March 18 Public Meeting in Morton<br>Review Draft Answers to FAQs   |
| 10:00 – 10:20 | Draft FHMP Outline prepared by Lars and strategy to proceed   |
| 10:20 – 10:30 | Update from Downstream Team Meeting   |
| 10:30 – 11:00 | Tee Up Credits (for detailed Discussion at May Meeting)   |
| 11:00 – Noon  | Productivity Testing (review matrices)  |
| Noon – 12:30  | Our Usual Working Lunch   |
| 12:30 – 2:30  | Discuss Satellite Rearing Materials (for Decision at May Meeting)   |
| 2:30 – 2:40   | Update Status of March 2 Meeting Action Items   |
| 2:40 – 2:50   | Approval of March 2 Meeting Summary   |
| 2:50 – 3:00   | Meeting Evaluation and set May 4, 2010 Meeting Agenda<br>List relevant documents to review prior to May 4 Meeting |

**FTC Cowlitz Hydroelectric Project**  
**FERC NO. 2016**  
**Fisheries Technical Committee**  
**Final Conference Call Summary**  
May 4, 2010 from 9:00 AM – 12:30 PM

**Participating Members**

Brett Swift	American Rivers
Pat Frazier	WDFW
George Lee	Yakama Nation
Tim Romanski	USFWS
Mark LaRiviere	Tacoma Power
Brad Caldwell	Washington Dept of Ecology

**Other Participants**

Bob Rose	Yakama Nation
Ed Meyer	NMFS
Rich Turner	NMFS
John Serl	WDFW
Tom Martin	Tacoma Power
Debbie Young	Tacoma Power
Mark Wicke	Tacoma Power
Tom Santee	Insight Northwest
Lars Mobernd	Consultant
Lyn Wiltse	PDSA Consulting

**Future FTC Meeting Dates (first Tuesday of each month)**

July 15 (NEW DATE), Aug. 3, Aug. 31 - Sept 2 (NEW 3-DAY MEETING),

~~Sept. 7~~, Oct. 5, Nov. 2, Dec. 7

Default time: 9:00 AM to 3:00 PM; Default location: Mayfield

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**Announcement**

We did not meet in April due to the revised FHMP update strategy.

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**Agenda Item: Public Communications Update**

**Presenter: Tom Santee**

Tom debriefed the last public meeting held March 18, 2010 in Morton. There were 100 people in attendance. Pat's presentation on productivity testing was interrupted by attendees who were angry in reaction to flyers posted around the town claiming that, as a result of productivity testing, there would be no more fishing on Cowlitz, Cispus, and Tilton Rivers for 10 years. Jim Scott was helpful in agreeing to meet with people on behalf of WDFW in the lobby. Ultimately about 60 people stayed until the end of the meeting. The meeting ended well. After the meeting many of the attendees complained

about the rude behavior (swearing, etc.) of the angry attendees who believed the lies that were posted on the flyers.

Pat reported the complaints that they heard from the public extended beyond the issue of productivity testing and that WDFW will be setting up a WDFW Cowlitz River Fish Advisory Committee. The objective is to improve working relationships with their constituents and to provide as many fishing opportunities as possible within conservation constraints.

Tom S referred us to the March 18 version of the FAQs that he forwarded to all this morning. Our intent is to provide direct answers to these questions in a way that is easily understandable by the public. These would be posted on the CowlitzFish.net website.

**Action Items:**

- FTC Members will refer citizens interested in participating in the WDFW Cowlitz Fish Advisory Committee to Pat.
- Pat will send Lyn the decision date for the Advisory Board membership.
- By May 7 Tom S will send draft responses to the FAQs to Mark L for review / edits before sending them out to the FCT for review. He will include questions re current state of fisheries on various waterways.
- During the week of May 10 Mark L will send out notice of when draft FAQs have been posted on FTC website.
- By the end of May FTC members will review the answers and suggest edits as well as additional questions to include.

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**Agenda Item: Cowlitz River Flows**

**Presenter: Mark L**

Mark reviewed the Mossyrock Refill Probability graph based on the NW River Forecast Center's April 26, 2010 forecast. He reported that they are proceeding as discussed in the conference call in early March with exception of maintaining 3,500 cfs flow in May. Flows were dropped to 4,500 cfs until April 9 and since April 10 they have been at 3,500 cfs. Currently the plan is to stay at 3,500 cfs through the 1st of June. They are tracking with the 30% exceedance curve. Riffe Lake elevation is 739 today.

Mark explained that Tacoma is basing the refill forecasts on the current snowpack which is currently in the bottom third of what has happened over the last 40 years. They are carrying out the pulse flow as per the formula called for by the instream flow regime.

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**Agenda Item: Construction and Operations Update**

**Presenter: Mark L**

Mark reported that the two year salmon hatchery rebuild is nearly complete. Thursday of this week there will be a dedication celebration to acknowledge that the rebuild is complete and the major systems are functional and operational. The visitor center will be constructed next year. Tacoma is appreciative of all that WDFW has done in helping them maintain full production during construction.

Mayfield Counting House – The secondary flow attraction pumps were operational May 1. The new “slide for life” discharge pipeline and secondary brushes and screen cleaning device are also complete.

We discussed including a field trip to tour the facility for the last two hours of our July meeting.

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**Agenda Item: Behavioral Guidance System (BGS) Update**

**Presenter: Marc Wicke**

Marc reported that they should be able to put the last of the booms in early this week and that all tarps and end panels should be in place by May 14. Anchors, etc. should be in place for the weir collected at the terminus of the BGS. They are completing the forebay installation in conjunction with the BGS. They anticipate putting fish in the water by next week.

Debbie reported that on April 23 they completed the core drill through Cowlitz Falls Dam. The pipe and slide valve have been installed and the pipe is now connected to the flume. The trap should be operational within the next week. They have also installed a debris boom upstream of the BGS. Tacoma will be monitoring that continually.

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**Agenda Item: FHMP Schedule Update**

**Presenter: Lars Mobernd**

Lars walked us through his proposed strategy for completing the FHMP update. He also explained the associated flow chart labeled Attachment A. He suggested a strategy for updating the FHMP, with public review, by April, 2011.

The outline included the following components:

1. Background / Introduction
2. Long-Term Goals
3. Key Assumptions
4. Population Status and Trends
5. Annual Decision Making Process
6. Annual Action Plan

The flow chart illustrates two tracks – one track involves Lars drafting the FHMP while the other (the ovals) represent the FTC process which feeds into and provides info for

the FHMP as it moves forward. Lars has indicated the key decision points. By August 1, 2010 he anticipates having the first draft of the FHMP with much of the content included and identification of issues that have been resolved and those that are in the process of being resolved. Lars is planning to review work from the HSRG and also to make use of an in-season management tool (sliding scale) that allows for accommodating for various run sizes, etc. for each season. The tool also documents status and trend information as well as key assumptions and decision rules that we could develop as part of the FHMP process.

The FTC meetings would identify issues that can be resolved by the FTC and those that need to be elevated for policy-level decisions. Lars is still working on a process for this.

Lars will be available for phone calls and meetings to work with any of us on the topics on the schedule. He looks forward to hearing comments and viewpoints from everyone. He also welcomes any reference documentation that FTC members feel would be useful.

Pat reported that he can update the public on what is happening relative to the FHMP update through the new Advisory Committee they are setting up.

Lars will draft the long-term goals (many of which are already contained in the Settlement Agreement) and pull together a draft FHMP within the framework of those goals. We will set up a multi-day meeting in August and discuss issues at that time. Many of the long-term goals in terms of restoring populations, etc. are already contained in the SA.

**Action Items:**

- FTC members will send relevant background documents to Lars ASAP.

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**Agenda Item: Update from Downstream Team (DST)**

**Presenter: Tom M**

Tom M walked us through the alternatives paper he emailed out on April 29. This was updated at the last DST meeting. The next DST meeting will be May 12 where they will be reviewing the assignments and attaching a schedule. Some work on the issues is already underway. There will be engineering discussions (examine all design and operating issues) and biological discussions. Both should help us identify any issues that are insurmountable. The biological discussion will include a review of data collected, results from the model, and experience and knowledge of our experts.

A teamlet of John S, Marc W, and Al G has been working on revising the inputs to the biological model. They will share the modifications including the results of the last model run performed by John S at the next DST meeting on May 12. They will also do some sensitivity testing on the model and walk DST members through an extensive document that explains the assumptions, inputs, and associated justifications for the model. After



the May 12 meeting they will send out a graph of results of preliminary runs illustrating the potential of the different alternatives / combinations of alternatives.

Tom M reported that they will plan to do this presentation at the July FTC meeting. They will do another presentation after they get the results of the BGS study in October. At that time they will have decided on two alternatives to bring to 90% conceptual design report (proposal). This would not cause any delay in the schedule. The next two DST meetings are scheduled for June 3 and June 16.

There are still some differences of opinion among DST members regarding the attraction flow issue. A more concrete proposal will be presented to the DST for consideration.

The option of a Floating Surface Collector in Mid-Riffe Lake was determined to be incapable of meeting the biological performance goal as a standalone solution for Chinook and coho. This was due to seasonal variations in reservoir elevations.

**Action Items:**

- The appropriate members of the DST will prepare a presentation to deliver to the FTC at the July meeting.

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**Agenda Item: Productivity Testing (review matrices)**

**Presenter: Pat**

Pat walked us through the WDFW proposal drafted by Ray Beamsderfer that he (Pat) sent out for FTC review on April 26. The document includes abundance targets for all species in the upper Cowlitz and Tilton Rivers. Alternative A outlines recovery plan objectives and Alternative B outlines Viability Matrices. Alternative C outlines Critical Risk Thresholds.

Pat explained that Tables 2-5 contain matrices completed for spring Chinook, steelhead, and coho. Habitat productivity is expressed by a smolt-to-adult ratio.

In prior discussions we agreed to use moderate viability level to evaluate whether it made sense to build a ladder based on both populations. Debbie suggested it would only make sense to build a ladder if we have a population with a high risk of surviving, meaning the standard should be the primary population (5% risk) that would require Tacoma to build a ladder in the event that the Upper Cowlitz failed the productivity test (based on the Tilton River only). After some discussion it was decided that Pat and Debbie would continue this discussion offline and then revisit this with FTC members via conference call prior to our next meeting. In the meantime Pat will ask Ray to run the numbers for primary population for the Tilton River.

**Action Items:**

- Pat will check with Ray B as to whether the population for upper Cowlitz and Cispus Rivers are combined on Table 3. He will ask Ray also to run the numbers for the primary population for the Tilton only.
  - Pat will call Debbie regarding use of moderate viability level for Tilton only.
  - Pat will set up a conference call with FTC members after talking with Debbie to get agreement on the abundance numbers for steelhead productivity tests that were initiated this year.
- 

**Agenda Item: Update Status of March 2, 2010 Meeting Action Items****Presenter: Lyn****Action Items:**

- All will review updated FTC operating protocols posted on the FTC website and provide any feedback / suggested changes to Lyn by the end of May.
  - All will review the CowlitzFish.net website and give Tom S feedback re any links that might be helpful to add.
  - Tom M asking Mark to add “subject to change” asterisk to the FHMP Schedule is no longer relevant.
  - Checking to see if our 3-meeting strategy per topic is effective is no longer relevant.
  - Bob will provide any additional literature related to satellite rearing for coho.
  - Michelle will check to see what documents NMFS has relative to satellite rearing.
  - Pat will outline management implications of the results of the lower Cowlitz River Winter-run Steelhead Genetics study to share with the FTC.
  - Tom S will send out FAQ with draft answers week of May 10 and announce when posted on FTC website.
- 

**Agenda Item: Approval of March 2, 2010 Meeting Summary**

We approved the March 2, 2010 meeting summary without edits.

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**Agenda Item: Conference Call Evaluation****Well Done:**

- Conference call was a greener way to meet
- Audio worked fairly well
- Got out early
- People were well prepared for discussions

**Do Differently:**

- Nothing

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The meeting was adjourned at 12:18 pm.

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### **Reference Documents**

- Agenda for May 4, 2010 FTC conference call
  - Draft of March 2, 2010 FTC meeting summary
  - March 18, 2010 Draft Questions about Cowlitz Fisheries Plan
  - Productivity Test – FTC Abundance Criteria – April 6, 2010 (R Beamsderfer)
  - FHMP Update: Draft Executive Summary (L Mobrand)
  - FHMP Update Attachment A: FHMP Flow Chart
  - May 3, 2010 Draft of Base Alternatives and Unresolved Issues for Downstream Passage of Juvenile Salmonids
  - Updated FTC Protocols, May 8, 2010
- 

### **Draft Agenda for July 15, 2010 (NEW DATE) FTC Meeting at Mayfield**

9:00 – 9:30	Welcome / Review Agenda / Check-In Update Status of May 4 Meeting Action Items Approval of May 4 Meeting Summary
9:30 – 11:30	Downstream Team Presentation and Discussion
11:30 – Noon	Brief Lunch Break
Noon – 2:15	Field Trip: Hatchery Tour

**FTC Cowlitz Hydroelectric Project**  
**FERC NO. 2016**  
**Fisheries Technical Committee**  
**Final FTC Meeting Summary**  
July 15, 2010 from 9:00 AM – 12:30 PM  
Mayfield Office, Silver Creek, Washington

**Members Present**

Brett Swift	American Rivers (by phone)
Pat Frazier	WDFW
Bob Rose	Yakama Nation
Tim Romanski	USFWS
Mark LaRiviere	Tacoma Power
Michelle Day	NMFS (by phone)
Brad Caldwell	Washington Dept of Ecology

**Other Attendees**

Ed Meyer	NMFS
Rich Turner	NMFS
John Serl	WDFW
Mark Hunter	WDFW
Susan Clerebiej-Kanzler	WDFW
Pat McCarty	Tacoma Power
Debbie Young	Tacoma Power
Tom Martin	Tacoma Power
Bill Iyall	Tacoma Power
Mark Wicke	Tacoma Power
Chick Sweeney	AECOM
Joe First	LCPUD
Mike Kohn	LCPUD/BPA
Debbie Carlson	BPA
Kendall Hamilton	District Rep, Congressman Baird's Office
Lyn Wiltse	PDSA Consulting

**Future FTC Meeting Dates**

~~Aug. 3~~, Aug. 31 - Sept 2 (?), ~~Sept. 7~~, Oct. 5, Nov. 2, Dec. 7  
Default time: 9:00 AM to 3:00 PM; Default location: Mayfield

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**Announcements**

We did not meet in June due to the revised FHMP update strategy.

Mark L reported that two routine annual reports are posted to the FTC website and are available for comment:

- Annual Upstream Fish Passage Report
- Lower River Side Channel Monitoring Report

Mark L made available a handout including a map that described the treatment activities planned by the U.S. Forest Service in the Cispus River System. The review period is underway and the Forest Service is seeking comments. The planned actions are fairly comprehensive and involve areas where we are releasing adult fish. Ranger Kristie Miller is seeking comments by July 23, 2010.

Lyn reported that the FTC protocols have been accepted and the final version will replace the draft version posted to the FTC website.

---

**Agenda Item: Update Status of May 4, 2010 Conference Call Action Items**

**Presenter: Lyn**

**Action Items:**

- All will review the CowlitzFish.net website and give Tom S feedback re any links that might be helpful to add.
  - By the end of July FTC members will review the answers and suggest edits to FAQs as well as additional questions to include.
  - Pat will check with Ray B as to whether the population for upper Cowlitz and Cispus Rivers are combined on Table 3. He will ask Ray also to run the numbers for the primary population for the Tilton only.
  - Pat will call Debbie regarding use of moderate viability level for Tilton only.
  - Pat will set up a conference call with FTC members after talking with Debbie to get agreement on the abundance numbers for steelhead productivity tests that were initiated this year.
- 

**Agenda Item: Approval of May 4, 2010 Conference Call Summary**

We approved the May 4, 2010 meeting summary without edits. Mark L will post them for public review.

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**Agenda Item: Update on Cowlitz River Ad Hoc Advisory Group**

**Presenter: Pat Frazier**

Pat reported that the newly-formed Advisory Committee has met several times. They plan to meet again on July 22. They are meeting twice a month at the Lewis Co PUD Office in Chehalis from 1:00 – 4:00. The new name for this group is Cowlitz River Ad Hoc Advisory Group. The aim of the group is to allow WDFW to have discussions and get input from a range of their constituents in the Basin.

WDFW has provided members with background information on a variety of topics. They hope to complete associated discussions and get public input in a timely fashion to inform WDFW's input on the FHMP update. The meetings are open to the public. The August meeting dates are Aug. 5 and Aug. 26. Most meetings are 1:00 – 4:00pm.

**Action Items:**

- FTC members are to let Pat know if they know if they or someone they know would like to attend these meetings.

- Pat will check with Jim re sharing of meeting minutes from this group.
- 

**Agenda Item: Downstream Team Presentation**

**Presenters: Chick Sweeney, John Serl, Marc Wicke**

The Downstream Team met last on June 3 at Cowlitz Falls Dam. Chick, Marc, and John walked us through the PowerPoint presentation posted to the FTC website on July 7.

Chick explained that while they are calculating FPS in a similar definition to the Settlement Agreement, the numbers are dependent on input parameters. They are having to extrapolate values based on other collection systems in other locations so while they will be helpful from a relative ranking standpoint, they will not necessarily accurately predict performance at Cowlitz Falls. They feel pretty confident in the survival numbers as those are based on actual Cowlitz Falls information.

We discussed the potential of each of the 17 options plus the base case:

0. Base Case: Current System
1. CFFF Weir Box
2. Lake Scanewa FSC
3. SFO at CFD
4. Riffe Lake FSC
5. Mossy Rock FSC
6. SFO & Riffe Lake FSC
7. SFO and Mossyrock FSC
8. CFFF WB & Scanewa FSC
9. CFFF WB & Riffe FSC
10. CFFF WB and Mossyrock FSC
11. CFFF WB & SFO
12. Scanewa FSC and Riffe Collector
13. Scanewa FSC and Mossyrock FSC
14. Scanewa FSC and CFFF WB and Riffe FSC
15. Scanewa FSC and CFFF WB and Mossyrock FSC
16. SFO and CFFF WB and Riffe Lake
17. SFO and CFFF WB and Mossyrock FSC

Ed noted that while the team is estimating the effectiveness of the SFO and the BGS to be equal, if the BGS proves not to be effective, the SFO at the dam might prove to be more effective than the FSC. Since we are already doing well with steelhead, a lot of the improvement we are looking to see over the base case is with Chinook.

The team will continue to meet over the next several months to develop consensus on a variety of the topics. They will also work updating the 60% design memo to, among other things, document the justifications for the input numbers and recommended next steps. Additional next steps will be determined at their October meeting after the results of the BGS study are in.

Marc explained how they repositioned and reconfigured an incline plane trap to Lake Scanewa to take advantage of the BGS and create a type of floating weir collector to assist with supplemental collection this year.

**Action Items:**

- The Team will give another presentation after they get the results of the BGS study in October. At that time they hope to have decided on alternatives to bring to 90% conceptual design report (proposal). They will also have a second year of fish collection data from the Baker system at that time.
  - FTC members will give any suggestions about the data relative to the various options to DST members.
- 

**Agenda Item: Meeting Evaluation**

**Well Done:**

- Presentation by Downstream Team members
- Feedback on presentation and how to best represent the data

**Do Differently:**

- Phone technology (conference call)
  - No Red Bull for facilitator
- 

The meeting was adjourned at 12:25 pm and was followed by a field trip to the Cowlitz Salmon Hatchery.

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**Meeting Handouts**

- Agenda for July 15, 2010 FTC meeting
  - Draft of May 4, 2010 FTC conference call summary
  - Forest Service Memo dated July 2, 2010 re recommendations from the Cispus Adaptive Management Area Guide and associated maps
  - PowerPoint: Cowlitz River Project Downstream Fish Passage Update Presentation by Chick Sweeney, PE; John Serl; and Marc Wicke, July 15, 2010
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**Draft Agenda for Next FTC Meeting**

- |              |  |
|--------------|--|
| 9:00 – 9:30  | Welcome / Review Agenda / Check-In<br>Update Status of July 15 Meeting Action Items<br>Approval of July 15 Meeting Summary |
| 9:30 – 11:30 | FHMP Update Process and Schedule (?)   |
| 11:30 – Noon | Brief Lunch Break  |
| Noon – 2:15  | Plan for Next Public Meeting<br>Evaluate the Meeting and Plan Topics and Date for next Meeting                             |

**FTC Cowlitz Hydroelectric Project**  
**FERC NO. 2016**  
**Fisheries Technical Committee**  
**Final FTC Meeting Summary**  
August 31, 2010 from 9:00 AM – 2:30 PM  
Mayfield Office, Silver Creek, Washington

**Members Present**

Brett Swift	American Rivers
Pat Frazier	WDFW
Bob Rose	Yakama Nation
Tim Romanski	USFWS
Mark LaRiviere	Tacoma Power
Michelle Day	NMFS
Brad Caldwell	Washington Dept of Ecology

**Other Attendee**

Rich Turner	NMFS
John Serl	WDFW
Wolf Dammers	WDFW
Sara LaBorde	WDFW
Julie Henning	WDFW
Shannon Wills	Yakama Nation
Lars Moberand	DJ Warren & Associates, Inc.
Andy Appleby	DJ Warren & Associates, Inc.
Debbie Young	Tacoma Power
Tom Martin	Tacoma Power
Chris Sergeant	Tacoma Power
Lyn Wiltse	PDSA Consulting

**Future FTC Meeting Dates**

Oct. 5, Nov. 2, Dec. 6 and 7

Default time: 9:00 AM to 3:00 PM; Default location: Mayfield

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**Announcements**

Debbie reported that Marc Wicke is relocating to Arizona at the end of the month. We appreciate his hard work, will miss him and wish him well.

Tom reported that Tacoma has filed a request for extension for the final report (until Aug. 31, 2011) on the downstream fish passage plan. They are awaiting a response from FERC.

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**Agenda Item: Update on Cowlitz River Ad Hoc Advisory Group**

**Presenter: Pat Frazier**



Pat reported that the Advisory Group is meeting twice a month in Chehalis from 1:00 – 4:00. The next two meetings will be September 16 and September 30. Fish Program Director Jim Scott is leading the group. The aim of the committee is to provide members with background information, including the types of decisions WDFW can and cannot make, and the conservation constraints. Another objective is to give members a sense of the playing field and allow them to provide input to inform WDFW's policy decisions on the FHMP update. The meetings are open to the public. There are meeting notes that summarize the salient concepts. Pat reported that they are considering posting these for public review.

Group members are: Sean Orr, Bob Reid, Don Glaser, Carl Burke, Dale Scott, Dave Becker, Lonnie Goble, Jerry Schroeder, Tony Crocco, Terry Turner, Shannon Wills, and Stan Bartle.

WDFW has given each member a notebook with FERC orders, Settlement Agreement, Biological Opinion, existing FHMP, etc. They have had various speakers (including Michelle and John) talk to the group about background information including conservation needs, ESA, HSRG guidelines, etc. At the August 26 meeting they asked the members to list their conservation and fishing priorities and objectives in the basin. They are framing the discussion to define objectives and goals. The next thing would be to strategize how to accomplish those goals. At an upcoming meeting they will introduce the AHA model and ask members to translate their goals into workable programs in light of the model and the constraints.

WDFW's goal is to get a consensus recommendation from the committee on production programs by mid November. They want to bring the preferred program of the committee to the FTC as WDFW's recommendation.

**Action Items:**

- Pat will keep us posted on the progress of this group.

---

**Agenda Item: FHMP Update – Conservation Goals**

**Presenter: Lars Moberg**

Lars explained that he is taking an adaptive management approach with regard to the updating of the FHMP. The first component is goals and key assumptions that identify how we think the system works (some are well known and others are less well known). There is also a section on status and trends so we will be able to look back and see what kind of progress we are making. The third component is a decision framework – for long and short-term decisions.

He further explained that we are starting with a premise - the goals set sideboards for what we can do. A key question is how to size hatchery programs.

Lars walked us through a PowerPoint presentation titled: Defining Consistency with Recovery and Restoration of Indigenous Salmon Runs. The three sources proposed to

guide our consensus recommendation are ESA, Lower Columbia River Salmon Recovery Plan, and HSRG Principles and Standards.

FTC members all agreed that we would design and evaluate Cowlitz hatchery programs included in the FHMP update based on their alignment and consistency with:

- Salmon recovery goals (population designations, and viability goals, including abundance)
- HSRG Standards based on population designations (hatchery influence on natural spawning (pHOS, PNI, and pNOB))

We agreed that we can't have programs that don't meet these minimums. We still need to have the policy discussion about whether it makes sense to drive populations always to the max. These numbers would ultimately be coupled with an M&E plan. Bob explained that there is still a fair amount of discussion about this within the Yakama and other tribes so he abstained from the official vote and encouraged us to go forward with these numbers.

**Action Items:**

- WDFW will bring a proposal informed by the Advisory Committee to the FTC for consideration by mid-November.

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**Agenda Item: FHMP Update: In-Season Implementation Tool (ISIT) Demo**

**Presenter: Lars Mobrand**

This tool uses the AHA analysis which looks at systems under average conditions. We will have to adjust based on the size on the natural run to meet broodstock targets, etc. Andy and Lars built a tool that captures all key assumptions and is tied to the AHA model. Lars walked us through an example using the following assumptions from AHA:

**Key Assumptions:**

- Hatchery:
  - Hatchery SAR
  - Pre-terminal HOR Exploitation Rate
  - Stray Rate (effectiveness of hatchery weir)
  - Expected Ave HOR Return
  - Hatchery Smolts per Spawner (fecundity, sex ratios, etc.)
  - Max % NORs accessible for brood (how many NORs we are able or allowed to get and put in our hatchery group)
- Natural:
  - Natural SAR
  - Habitat productivity
  - Habitat Capacity
  - Relative fitness
  - Pre-terminal NOR Exploitation Rate (how many of the fish produced will be subtracted before they get back to the stream)
  - Expected Ave. NOR Return

Lars explained pHOS and PNI are cumulative values. AHA assumes an average run size. When the run is less, there may be a year when the PNI is small. In that case would adjust our pHOS values.

**Key Points:**

1. Hatchery fish may do really well in a hatchery environment and not well in a natural environment
2. Average years don't happen very often.

The way they are structuring the FHMP is to identify key assumptions among them is the notion that fitness will improve as we improve composition. They will back this up with a monitoring plan that tests key assumptions that most affect the action plan.

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**Agenda Item: FHMP Update: Monitoring and Evaluation Foundation**  
**Presenter: Andy Appleby**

Andy gave an overview of the current concepts for the M&E section of the FHMP update. Much of his presentation was patterned after similar M&E programs for Lewis River and other Lower Columbia River populations. At this point it is fairly hatchery centric. One of the themes of the FHMP is consistency with broodstock management, ESA, Recovery Board recommendations, etc. Cowlitz should make a contribution to all of those and should not act in a way that is counter to those umbrella movements going forward.

Andy walked us through a PowerPoint presentation outlining the major areas he envisions for the M&E section of the FHMP. These include: challenging / testing key assumptions, status and trends, i.e., monitoring metrics that measure progress toward goals, management precision, i.e., monitor and record observations that will improve management.

M&E should be about our understanding about "how we think the system works". This is how we form our hypotheses. These assumptions are what we want to watch to ensure we meet our ultimate goals. Without that knowledge we may not be turning the right dials, or adjusting the correct inputs to reach our goals (status and trends). We also need to agree on a predetermined level of accuracy or precision to be useful in management.

The plan would also include in-hatchery monitoring, out-of-hatchery monitoring, and use of M&E results (vehicle to allow for adaptive management).

**Action Items:**

- All to give feedback on what should be included in M&E plan to Andy and to Mark to post to FTC website.

- Consider concept of tying M&E results to key measurable goals so we can see if we are accomplishing what we intend.
  - How should we capture all of this at the end of the year? We also need to identify who and how the report is evaluated and what decisions are made accordingly. This would be adaptive management.
  - Andy and Lars to recommend frequency of review for certain indicators.
- 

### **Agenda Item: FHMP Schedule**

**Presenter: Lars**

Lars reported that there is a detailed outline for the FHMP that is waiting for decisions as input. Trout, Crediting Mechanisms, Adaptive Management and M&E programs are all ready for fleshing out now.

A draft FHMP will be available in time for the December 7 FTC meeting. Desire was expressed to review pieces of the FHMP sooner as they become available.

FTC members discussed the breakdown of communication and the failure of WDFW and Tacoma Power to convey their decision to delay the schedule for the FHMP. FTC members agreed to improve communications as they move forward.

#### **Action Items:**

- Mark to post detailed outline of the FHMP on the FTC website.
  - Lars and Andy to develop an updated schedule and post on website. Hold conference call to discuss.
  - Lars to send out additional information on M&E, approach to Adaptive Management, and Crediting Mechanisms by Sept. 28 if possible.
- 

### **Agenda Item: Approval of July 15, 2010 Meeting Summary**

We approved the July 15, 2010 meeting summary with a minor edit. Mark L will post it for public review.

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### **Agenda Item: Update Status of July 15 Action Items**

**Presenter: Lyn**

#### **Action Items:**

- Tom will consolidate comments on FHMP FAQs from FTC members and post for members to review.
- Pat will check with Ray B as to whether the population for upper Cowlitz and Cispus Rivers are combined on Table 3. He will ask Ray also to run the numbers for the primary population for the Tilton only.
- Abundance numbers (for productivity test) need to be agreed to by FTC.
- Pat will check with Jim re sharing of meeting minutes from the Ad Hoc Advisory group.

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## **Agenda Item: Meeting Evaluation**

### **Well Done:**

- Got out early
- Presentations by Andy and Lars

### **Do Differently:**

- More communication between meeting
- 

The meeting was adjourned at 2:00 pm.

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### **Meeting Handouts**

- Agenda for August 31, 2010 FTC meeting
  - Draft of July 15, 2010 FTC Meeting summary
  - PowerPoint presentations: Defining Consistency with Recovery and Restoration of Indigenous Salmon Runs; Draft Monitoring and Evaluation (M&E) Concepts
- 

### **Draft Agenda for Oct. 5, 2010 FTC Meeting**

9:00 – 9:30 Welcome / Review Agenda / Check-In  
9:30 – Noon Walk through M&E, Adaptive Management, Credits Overview  
Noon – 12:30 Our Usual Working Lunch  
12:30 – 2:00 FHMP Topic Discussion (Continued)  
2:00 – 2:30 Update from Downstream Team  
Plan / Schedule for 2011 Downstream Collection Plans  
Update Status of August 31 Meeting Action Items  
Approval of August 31 Meeting Summary  
Evaluate the Meeting and Plan Topics and Date for Nov. 2 Meeting

### **Draft Agenda for Nov. 2, 2010 FTC Meeting**

9:00 – 9:30 Welcome / Review Agenda / Check-In  
9:30 – Noon FHMP Update  
Update Status of October 5 Meeting Action Items  
Approval of October 5 Meeting Summary  
Evaluate the Meeting and Plan Topics and Date for Dec. 2 Meeting

### **Draft Agenda for Dec. 6-7 (tentative), 2010 FTC Meeting**

9:00 – 9:30 Welcome / Review Agenda / Check-In  
Walk through of draft of FHMP  
Update Status of August 31 Meeting Action Items  
Approval of August 31 Meeting Summary  
Evaluate the Meeting and Plan Topics and Date for Jan, 2010 Meeting

**Draft Agenda for Jan. 4, 2011 FTC Meeting**

9:00 – 9:30      Welcome / Review Agenda / Check-In  
                         Presentation by Downstream Team  
                         Approval of December Meeting Summary  
                         Evaluate the Meeting and Plan Topics and Date for Feb 2011 Meeting

**FTC Cowlitz Hydroelectric Project**  
**FERC NO. 2016**  
**Fisheries Technical Committee**  
**Final FTC Meeting Summary**  
October 05, 2010 from 9:00 AM – 3:00 PM  
Mayfield Office, Silver Creek, Washington

**Members Present**

Brett Swift	American Rivers
Pat Frazier	WDFW
Bob Rose	Yakama Nation
Tim Romanski	USFWS
Mark LaRiviere	Tacoma Power
Michelle Day	NMFS

**Other Attendee**

John Serl	WDFW
Shannon Wills	Yakama Nation
Andy Appleby	DJ Warren & Associates, Inc.
Debbie Young	Tacoma Power
Tom Martin	Tacoma Power
Mike Kohn	LCPUD
Lyn Wiltse	PDSA Consulting

**Future FTC Meeting Dates**

Nov. 2, Dec. 7, Dec. 14-15 (FHMP Workshop), Jan. 4, Feb. 1, Mar. 1, Apr. 5, May 3, June 7, July 6 (Wednesday), Aug. 2, Sept. 7 (Wednesday), Oct 4, Nov1, Dec 6  
Default time: 9:00 AM to 3:00 PM; Default location: Mayfield

**Action Items:**

- All to review 2011 meeting dates listed above and report any conflicts by Nov. 2.
- Lyn to add Shannon Wills, Rich Turner, Andy Appleby, and Lars Mobernd to distribution list for agendas and meeting notes.
- Mark to send Shannon and Andy link to FTC website.

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**Agenda Item: Update on Cowlitz River Ad Hoc Advisory Group**

**Presenter: Pat Frazier**

Pat reported that the Advisory Group met again on September 16 and September 30. They are entering discussions regarding species-specific hatchery programs. They are looking at the programs in light of conservation sideboards and maintaining sustainable fishing opportunities. They will meet again October 15 (will discuss spring Chinook and coho) and October 21. Meetings have been scheduled through the end of December.

**Action Items:**

- Pat will continue to keep us posted on the progress of this group.

- By Oct. 19 Pat will share the meeting minutes from the Ad Hoc Advisory group.
- 

**Agenda Item: FHMP Schedule Update**

**Presenter: Andy Appleby**

We reviewed the proposed FHMP Timeline. By November 15 the initial FHMP draft will be distributed for FTC review. The outline is already posted on the FTC website. At the December 7 FTC Lars will walk us through the draft and demonstrate some of the tools in the plan. There will be time for Q&A. We will get acceptance and agreement of the approach, format, decision rules, and tools.

We will then follow up that meeting with a 2-day workshop December 14 and 15 for the FTC to make decisions around the content of the plan (actual values we use for triggers and decision rules, etc.). Andy explained that he and Lars see the FHMP as an adaptive management plan. This will require us to let go of some pre-conceived notions around the plan. This approach should result in less controversy going forward and meeting will provide good guidance for future actions.

Lars and Andy will use FTC input to create a final draft of the FHMP and send it out for FTC review by mid-January. FTC members would then endorse the final draft at the Feb 1, 2011 FTC meeting so it can be released in early February for a 30-day public review. We would kick off the public review period with a public meeting where Lars and Andy would walk through the revised draft of the FHMP and explain the format, approach to provide the public with adequate context to facilitate their review. The aim would be for the FTC to review and collectively address public comments by early April.

**Action Items:**

- All to reserve Dec. 14 and 15 dates for FHMP workshop
- All to suggest workshop locations to Mark L.
- By October 12 Lars to revise schedule and integrate full 30 days for public comment period. This period would begin after a public meeting (just after February 1, 2011) where Lars and Andy walk the public through the document and explain the approach and answer any questions. That will set the stage for informed public comments on the draft. He also needs build in adequate time (with milestones) for the FTC to review and agree on the substance of the responses to comments.

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**Agenda Item: Monitoring and Evaluation Overview**

**Presenter: Andy Appleby**

Andy walked us through the aim and proposed approach for M&E. He also reviewed with us a table listing key assumptions for primary and contributing populations (found in the AHA data set). He explained a rating system to help us evaluate the priority to assign to each proposed parameter.



**Action Items:**

- By October 6, Mark to post Key Assumptions Table to FTC website.
  - By October 6, Mark to post NOAA Guidance for Monitoring document to FTC website.
  - By October 19, FTC members to review table for completeness (considering all relevant populations as listed on the FHMP outline) and send input on additional parameters to Lars (lars.mobrand@gmail.com). All also to review NOAA Guidance for Monitoring Recovery of Salmon and Steelhead and let Lars know if you wish to suggest any additional standards. Link follows:  
<http://www.nwr.noaa.gov/Salmon-Recovery-Planning/upload/Draft-RME-Guidance.pdf>
- 

**Agenda Item: Transportation of Fall Chinook to Upper Cowlitz****Presenter: Pat Frazier**

We discussed the recent release of Fall Chinook into the Upper Cowlitz Basin and the events that lead up to that decision. Pat explained that this action (not a FTC-consensus decision) was a one-year action that did not set a precedent for actions in future years.

We discussed the process by which this decision was taken and the need to provide more communication around such issues in the future so FTC members can provide feedback in a timely and informed manner.

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**Agenda Item: Credits Overview****Presenter: Andy Appleby**

Andy explained that much of the language in the handout on crediting was taken from the initial FHMP. He walked us through a new, more specific proposal to include in the update to the FHMP.

Mark explained that credits were originally included in the SA for the purpose of reducing hatchery production. This proposal clarifies what and how the credits would be applied on a population-specific basis.

**Action Items:**

- By Oct. 19, Andy to add some background information to this paper to include additional context for this section. Include a couple of scenarios / examples of how crediting might work. Include also a base year and a concept of “floor” from which we would start to apply credits for each population. This would help inform FTC discussions. We should also address what crediting would be applied for Fall Chinook above the project.
  - FTC members to provide additional feedback / suggestions to Andy prior to our next meeting.
-

**Agenda Item: Update from Downstream Team (DST)****Presenter: Tom Martin**

Tom reported that at the DST meeting on September 28 they reviewed the technical evaluation for the rating system. The review included sensitivity testing. There was a presentation on the preliminary evaluation results by HDR for the monitoring program at Lake Skanewa on the BGS (Behavioral Guidance System) results. It appears that the BGS is effective for all targeted species.

The DST came to consensus that they would recommend to the FTC two options to take to 90% conceptual design level. There was also agreement to move forward with both of these options with great haste so the final plan can be submitted to FERC by the end of August of 2011.

At the November 2 FTC meeting Chick, Al and Tacoma staff will give a presentation to explain the ratings and the recommendation(s) to the FTC.

**Action Items:**

- HDR to continue to crunch data to support this effort.
- Tacoma will meet with LCPUD and BPA on Nov. 5 to start work on a long-term agreement for future work.
- Chick and Al to prepare to present and update at our next meeting. DST to review and approve of the contents of the presentation at their October 19 meeting.
- Tacoma to get draft presentation out to FTC to preview shortly thereafter, aiming for 10-day notice before our Nov. 2 meeting. Set up FTC conference call after Nov. 2 meeting?

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**Agenda Item: 2011 Behavioral Guidance System (BGS)****Presenter: Tom Martin**

Tom reported they plan to continue refining the work done this last summer to make some improvements. There would also be more evaluations planned.

Tacoma received a letter from LCPUD saying Tacoma could not do any work on the center spillways of the CF dam for the next 3 seasons due to LCPUD trying to implement their RPMs in their Biological Opinion. This will prevent Tacoma from doing any prototype work on the center spillways of the dam. This will be discussed further at the December 7 meeting. LCPUD has asked Tacoma to present a plan for 2011 collection plans by December 15. After LCPUD reviews and approves the plan, they will submit it to FERC to approve from a dam safety perspective.

**Action Items:**

- Bill to share high-level description of 2011 collection plans with FTC members ASAP.

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**Agenda Item: Approval of August 31, 2010 Meeting Summary**

We approved the August 31, 2010 meeting summary with edits. Mark L will post it for public review.

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**Agenda Item: Update Status of Prior Action Items**

**Presenter: Lyn**

**Prior Action Items:**

- Tom S will consolidate comments on FHMP FAQs from FTC members and post for members to review. (Note: Action on this has been deferred for now.)
  - Pat will check with Ray B as to whether the population for upper Cowlitz and Cispus Rivers are combined on Table 3. He will ask Ray also to run the numbers for the primary population for the Tilton only. Abundance numbers (for productivity test) need to be agreed to by FTC.
  - Andy and Lars to recommend frequency of review for certain indicators in M&E plan.
- 

**Agenda Item: Meeting Evaluation****Well Done:**

- Good discussions
- Got out early
- Andy's presentations

**Do Differently:**

- More communication between meetings and around decisions
  - Missed Lars and Brad. Hope both feel better soon!
- 

The meeting was adjourned at 2:45 pm.

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**Meeting Handouts**

- Agenda for October 5, 2010 FTC meeting
  - Draft of August 31, 2010 FTC Meeting summary
  - Proposed Schedule for Completing FHMP Update (Oct. 5, 2010 PowerPoint)
  - Monitoring & Evaluation Plan: Cowlitz FHMP Update (Oct. 5, 2010 PowerPoint)
  - Table: Key Assumptions for Primary and Contributing Populations (Found in AHA data set) Oct. 3, 2010
  - Statement of Crediting Mechanism for Cowlitz FHMP
- 

**Draft Agenda for Nov. 2, 2010 FTC Meeting**

9:00 – 9:15 Welcome / Review Agenda / Check-In  
9:15 – Noon DST Team Presentation (Chick and Al)  
Noon – 12:30 Our Usual Working Lunch  
12:30 – 2:30 Continue with DST Presentation / Discussion  
Do we need more time / info? If so, set up conference call?  
2:30 – 3:00 Update on Cowlitz River Ad Hoc Advisory Group  
Update on Comments received re FHMP revisions  
Update Status of October 5 Meeting Action Items  
Approval of October 5 Meeting Summary  
Evaluate the Meeting and Plan Topics for Dec. 7 FTC Meeting

**Draft Agenda for Dec. 7, 2010 FTC Meeting**

9:00 – 9:30 Welcome / Review Agenda / Check-In  
Walk through of draft of FHMP (approach and outline / format)  
Update Status of August 31 Meeting Action Items  
Approval of August 31 Meeting Summary  
Evaluate the Meeting and Plan Topics and December 14 -15 FHMP  
Workshop and confirm date and topics for Jan. 4, 2011 Meeting

**Draft Agenda for Dec. 14, 15 FHMP Workshop (Location: TBD)**

Single Topic: Make decisions around the content of the FHMP

**Draft Agenda for Jan. 4, 2011 FTC Meeting**

9:00 – 9:30 Welcome / Review Agenda / Check-In  
Presentation by Downstream Team  
Approval of December Meeting Summary  
Evaluate the Meeting and Plan Topics for Feb. 1, 2011 Meeting

**FTC Cowlitz Hydroelectric Project  
FERC NO. 2016**

**Fisheries Technical Committee  
Final FTC Meeting Summary**

November 02, 2010 from 9:00 AM – 2:30 PM  
Mayfield Office, Silver Creek, Washington

**Members Present**

Brett Swift	American Rivers
Pat Frazier	WDFW
Bob Rose	Yakama Nation
Brad Caldwell	WA Dept of Ecology
Tim Romanski	USFWS
Mark LaRiviere	Tacoma Power
Michelle Day	NMFS

**Other Attendee**

John Serl	WDFW
Eric Kinne	WDFW
Ed Meyer	NMFS
Debbie Young	Tacoma Power
Tom Martin	Tacoma Power
Pat McCarty	Tacoma Power
Kirk Kessler	Tacoma Power
Steve Fischer	Tacoma Power
Bill Iyall	Tacoma Power
Debbie Carlson	BPA
Mike Kohn	LCPUD
Joe First	LCPUD
Chick Sweeney	AECOM
Al Giorgi	BioAnalysts
Erich Gaedeke	FERC
Lyn Wiltse	PDSA Consulting

**Future FTC Meeting Dates**

2010: Dec. 7, Dec. 14-15 (FHMP Workshop – Location TBD)

2011: Jan. 4, Feb. 1, Mar. 1, Apr. 5, May 3, June 7, July 6 (Wednesday), Aug. 2, Sept. 7 (Wednesday), Oct. 4, Nov. 1, Dec. 6

Default time: 9:00 AM to 3:00 PM; Default location: Mayfield

**Announcements**

- The December 14-15 dates have been confirmed for the FHMP workshop. Stay tuned for the location.
- Mark reported that we are on track to break our all-time Cowlitz Fall Chinook record this year and the coho return is very strong. WDFW is currently surplusng 5,000-6,000 coho each week out of the Salmon Hatchery. They are running the separator 7 days a week. The FTC is welcome to stop by and witness the run.

- We welcomed Kirk Kessler to the meeting (his first with us). Tacoma has charged him with carrying forward the recommendations of the Downstream Team.
- 

**Agenda Item: Downstream Fish Passage Team (DFPT) Presentation / Discussion**  
**Presenter: Chick Sweeney and Al Giorgi**

Tom reviewed the aim and history of the DFPT. In late 2007 the FTC agreed upon a group of experts to make a recommendation regarding downstream fish passage. In March of 2008 we held the first downstream passage workshop with 42 attendees. This served as a kickoff for the DFPT, made up of agencies and outside consultants, which met 15 times (all day meetings) to review data and developed systematic approaches to analyze the data. This led to a prioritization of alternatives for downstream passage solutions. They reported their progress to the FTC a number of times including twice this year.

Chick and Al walked us through the seventeen alternatives and alternative combinations that were reviewed by the DFPT. Al described the biological and technical evaluation tools and processes used by the team. He noted that the Fish Collection Index (FCI) illustrates relative biological performance – not expected fish passage survival percentages.

Chick and Al described the following recommendations of the DFPT to the FTC. There was consensus to pursue the alternatives with the greatest potential for biological improvement in the shortest time. The DST will continue to meet to provide review and feedback as the designs are brought forward to 100%.

1. Carry the two Lake Scanewa alternatives, the surface collector and Surface Flow Outlet, to 90% conceptual design along with improvements at Cowlitz Falls Dam, i.e., weir box
2. Select one of the designs for final design and construction after the 90% conceptual design is completed
3. Continue conceptual level development of a Riffe Lake Collector after detailed design of selected alternative is complete.

Next Steps / Timeline: The schedule that was presented calls for the next presentation to the FTC of the 90% conceptual design to occur March 1 of 2011. We will be refining the design and construction schedule as we move to 90% conceptual design. The consultants were not sure yet if a physical model for hydraulic modeling will be needed.

Schedule from draft DFPT Alternatives Recommendation, November 2, 2010

- Nov. 2 FTC meeting to review DFPT recommendation for 90% conceptual design
- Nov. 18 Publish 60% Conceptual Design Report (final)
- Feb. 15 Publish Draft 90% CDR (NOAA, USFWS, and FTC review)
- Mar. 1 FTC 90% Conceptual Design Meeting
- Mar. 23 Public Utility Board Review and Consensus
- Apr. 7 Publish Final 90% CDR
- Apr. 21 Issue Tacoma Power Design Recommendation for FTC review, comment
- May 23 Receive FTC comments on Tacoma Power Design Recommendation

- Jul. 4 Publish Draft 100% CDR (for NOAA and USFWS approval)
- Aug. 24 Publish Final Plan (100% CDR)
- Aug. 31 Tacoma Power files with FERC

Other Key Dates:

- Mar. 28, 2012 Commence detailed design for construction of selected alternative
- Oct. 8, 2013 Complete detailed design of selected alternative
- Oct. 9, 2013 Begin Riffe Lake Alternative 90% Conceptual Design
- Jan. 28, 2014 Issue RFP for construction of selected alternative
- Feb. 13, 2014 Complete Riffe Lake Alternative 90% Conceptual Design
- Aug. 23, 2016 Facility in-service date (post testing)

FTC members agreed to accept the recommendations of the DFPT and to ask Tacoma to move forward on taking the two alternatives identified to the 90% conceptual design level. Pat (WDFW) is fine with Mid-Riffe design schedule. Michelle (NMFS) is still thinking about this. Tim (USFWS), Brad (DOE), Bob (Yakama Nation) and Mark (TP) are fine with the recommendation of the DFPT. Brett (American Rivers) is fine taking the two alternatives to 90% conceptual design level and wants more information explaining the Mid-Riffe Lake collector schedule.

**Action Items:**

- Mark to notify FTC members after he posts PowerPoint with updated (different data sort from original PowerPoint) charts to the FTC website.
- Chick and Ed to provide some examples to Michelle of schedules of implementation ASAP.
- Chick and Al to provide explanation of additional data collection re changing the location of the Riffe Lake Collector based on the 2010 USGS fish tracking data.
- Mike to send Study Plan used to yield USGS data (in letter dated September 27, 2010) to Mark to post to FTC website.

**Agenda Item: Update on 2011 Cowlitz Falls Dam Collection Activities**

**Presenter: Bill Iyall**

Bill distributed some schematics explaining the plan to modify the BGS panels in hopes of improving fish collection in 2011. They plan to have the BGS extend right into the mouth of the trap. The exclusionary net will still extend from the shore out to the trap. This will be a test to see if shade provided by tarps floating on the surface will be effective in getting fish to mill and migrate into the entrance. Ed expressed concern that shade creates predator habitat. Note: The tarps can be retracted easily if predation proves to be a problem.

Next steps: Submit the plans to LCPUD and FERC for approval.

**Agenda Item: Update on Cowlitz River Ad Hoc Advisory Group**

**Presenter: Pat Frazier**

Pat reported that the Advisory Group met again on October 15, 21, and 25. They are continuing to discuss various program options within the basin. They are making good progress. WDFW feels confident about engaging in FHMP discussions while representing the consensus of the group. Meetings have been scheduled through December, 2010. They will continue meeting until spring of 2011.

**Action Items:**

- Pat will continue to keep us posted on the progress of this group.
  - Pat will send notes from these meetings to Mark to post on the FTC website.
- 

**Agenda Item: Update on Comments Received on FHMP Update**

**Presenter: Mark L**

Mark reported that Lars has received little input to date from FTC members on the FHMP update schedule and/or outline. He and Andy encourage FTC members to provide comments or ask questions. Lars and Andy will finalize the draft update and it will be posted to the FTC website the week before Thanksgiving. Mark will notify FTC members when this has occurred.

**Action Items:**

- All to provide feedback to Lars and Andy ASAP.
  - Mark to send out FHMP Update Workshop (overnight) location information for December 14-15.
- 

**Agenda Item: Approval of October 5, 2010 Meeting Summary**

We approved the August 31, 2010 meeting summary via email with the edits suggested by Brett after the last meeting. Mark posted it for public review. We approved the October 5 meeting summary with edits.

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**Agenda Item: Update Status of Prior Action Items**

**Presenter: Lyn**

**Prior Action Items:**

- Pat will check with Ray B as to whether the population for upper Cowlitz and Cispus Rivers are combined on Table 3. He will ask Ray also to run the numbers for the primary population for the Tilton only. Abundance numbers (for productivity test) need to be agreed to by FTC.
- Lyn to add Rich Turner, Andy Appleby, and Lars Mobernd to distribution list for agendas and meeting notes.

**FHMP:**

- All to suggest workshop locations to Mark L. (Water Resources Education Center, Vancouver, WA?)
- Lars to revise schedule and integrate full 30 days for public comment period. This period would begin after a public meeting (just after February 1, 2011) where Lars and Andy walk the public through the document and explain the approach



and answer any questions. That will set the stage for informed public comments on the draft. He also needs build in adequate time (with milestones) for the FTC to review and agree on the substance of the responses to comments.

**Monitoring and Evaluation:**

- Andy and Lars to recommend frequency of review for certain indicators in M&E plan.

**Credits:**

- By the week before Thanksgiving Andy to add some background information to this paper (in draft FHMP update) to include additional context for this section. Include a couple of scenarios / examples of how crediting might work. Include also a base year and a concept of “floor” from which we would start to apply credits for each population. This would help inform FTC discussions. We should also address what crediting would be applied for Fall Chinook above the project.
- FTC members to provide additional feedback / suggestions to Andy prior to our next meeting.

**DFPT:**

- Tacoma will meet with LCPUD and BPA on Nov. 5 to start work on a long-term agreement for future work.

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**Agenda Item: Meeting Evaluation**

**Well Done:**

- Good discussions
- Completed our business in a timely manner balancing effectiveness with efficiency
- Chick and Al’s presentation

**Do Differently:**

- Need more communication between meetings and around decisions

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The meeting was adjourned at 2:20 pm.

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**Meeting Handouts**

- Agenda for November 2, 2010 FTC meeting
- Draft of October 5, 2010 FTC Meeting summary
- Downstream Team Fish Passage Update (Nov. 2, 2010 PowerPoint)
- Cowlitz River Project Downstream Fish Passage Draft Decision Document
- USGS letter to Tom Martin dated September 27, 2010.
- USGS letter to Mike Kohn, dated October 28, 2010
- 2011 BGS Test Plan

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**Draft Agenda for Dec. 7, 2010 FTC Meeting**

9:00 – 9:30 Welcome / Review Agenda / Check-In

Update on the Cowlitz River Ad Hoc Group  
9:30 – 11:45 Walk through Draft of FHMP update (approach and outline / format)  
11:45 – 12:15 Our Usual Working Lunch  
12:15 – 2:00 Continue review of FHMP Update draft  
2:00 – 2:30 Update Status of Nov. 2 Meeting Action Items  
Approval of Nov. 2 Meeting Summary  
Evaluate the Meeting and Review Schedule for December 14 -15  
FHMP Workshop and confirm date and topics for Jan. 4, 2011 Meeting

**Draft Agenda for Dec. 14, 15 FHMP Workshops (Location: TBD)**

Single Topic: Make decisions around the content of the FHMP update

**Draft Agenda for Jan. 4, 2011 FTC Meeting**

9:00 – 9:30 Welcome / Review Agenda / Check-In  
Update by Downstream Team  
Update on the Cowlitz River Ad Hoc Group  
Approval of December Meeting Summary  
Evaluate the Meeting and Plan Topics for Feb. 1, 2011 Meeting

**FTC Cowlitz Hydroelectric Project  
FERC NO. 2016**

**Fisheries Technical Committee  
FTC Meeting Summary**

December 07, 2010 from 9:00 AM – 2:30 PM  
Mayfield Office, Silver Creek, Washington

**Members Present**

Brett Swift	American Rivers
Pat Frazier	WDFW
Bob Rose (by phone)	Yakama Nation
Brad Caldwell	WA Dept of Ecology
Tim Romanski	USFWS
Mark LaRiviere	Tacoma Power
Michelle Day	NMFS

**Other Attendee**

John Serl	WDFW
Sara LaBorde	WDFW
Wolf Dammers	WDFW
Debbie Young	Tacoma Power
Lars Moberand	DJ Warren & Associates, Inc.
Andy Appleby	DJ Warren & Associates, Inc.
Tom Santee	Insight Northwest
Lyn Wiltse	PDSA Consulting

**Future FTC Meeting Dates**

2010: Dec. 14-15 (FHMP Workshop in Ridgefield starting at 9:30 on 14<sup>th</sup>, possibly starting at 8:30 on the 15<sup>th</sup> and ending at approximately 5pm on both days)

2011: Jan. 4, Feb. 1, Mar. 1, Apr. 5, May 3, June 7, July 6 (Wednesday), Aug. 2, Sept. 7 (Wednesday), Oct. 4, Nov. 1, Dec. 6

Default time: 9:00 AM to 3:00 PM; Default location: Mayfield

**Announcements**

- The December 14-15 dates have been confirmed for the FHMP workshop. Location is at the Clark County Fire Rescue Administrative Station 2-1. The building is located at 911 N 65<sup>th</sup> Ave. in Ridgefield (just off I-5 Exit #14).

Action Item:

- Pat to check to see if there is the ability to make copies at the workshop facility. He will also check also to see how soon we can get into the building and by then we have to be out (8:00 am to 5:00 pm?).
- Mark reported the Lower Columbia Fish Enhancement Group and the Cowlitz Tribe just completed a habitat enhancement project at Brim Bar. Mark distributed a photo showing the area. Most of the funding came from the Salmon Recovery Board. Some funding also came through Tacoma Power's Habitat Advisory Group funding.

**Agenda Item: Update on Cowlitz River Ad Hoc Advisory Group****Presenter: Pat Frazier**

Pat reported that the Advisory Group met November 4 and 19<sup>th</sup>. They are continuing to discuss various program options within the basin. They are making good progress. WDFW feels confident about engaging in FHMP discussions while representing the consensus of the group. Meetings have been scheduled through December, 2010. Their next meeting will be December 9. They will continue meeting until spring of 2011.

**Action Items:**

- Pat will continue to keep us posted on the progress of this group.
  - Pat will send notes from these meetings to Mark to post on the FTC website.
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**Agenda Item: Walk-through of Draft FHMP Update****Presenter: Lars Mobernd**

Lars walked us through the three major sections of the report:

1. Adaptive Management and Science Framework
  - Annual Decision Making Process (need to formalize the timing of this – February/March timeframe for FTC to meet to review this information)
    - Update Key Assumptions, Update Status and Trends, Update Decision Rules (we don't expect these to change frequently), Annual Action Plan for the coming year
  - Conservation (escapement and composition of the escapement) and Harvest Goals
    - Natural Production Goals and Constraints (need to identify these as clearly as possible)
    - Harvest Goals and Constraints
  - Key Assumptions (the model for how we think the system works – doesn't change from year to year) and allows you look forward
    - Organized by Habitat and Natural Production
    - Smolt to Adult Survival
    - Harvest
    - Hatchery Production Parameters
  - Status and Trends (of populations and harvest) based on what happened
    - Natural Production
    - Harvest
    - Hatchery Production
  - Decision Rules (given the goals and key assumptions and status of populations, these are rules around how to operate hatcheries for each of the populations.)
    - Conservation and harvest driven rules
    - Rules for Overall Hatchery Production (650K lbs.)
    - Crediting Rule (reduces hatchery production as natural production increases)

- Nutrient Enhancement Rules (move to separate section in plan)
  - Use of Satellite/Acclimation Ponds (move to separate section in plan)
  - Off- Stations Hatchery Programs (move to separate section in plan)
  - Productivity Testing (to extent that it limits steelhead production while the testing is underway) (move to separate section in plan)
  - Resident Trout (move to separate section in plan)
  - Methods and Tools
    - Used AHA (tool for looking at average conditions over long period of time) for planning in long term. It describes where we are – current status and also future conditions where goals are met.
    - Used ISIT (In-season Implementation Tool). This tool helps us sort out what the right steps are. It incorporates decision rules and status and trend information for recent history. The AHA analyzer has been incorporated into ISIT.
2. Action Plan for 2011
- For each of 13 populations:
- Management targets for natural and hatchery production (how key assumptions are presented – where we are and where we're going)
    - Feedback: Need to show percent and actual numbers of natural fish used for hatchery broodstock
  - Decision rules: Given biological targets and decision rules, what is the best we can do given a certain run size to move toward our goal any given year?
    - Key assumptions, Biological Targets, Decision Rules
  - Actions for 2011
    - After going through the crediting, 650K limit, other rules, this summarizes the outcome.
  - Monitoring Priorities
    - Within each of the populations there is a section that addresses the monitoring priorities for that population including:
      - Key assumptions and associated uncertainties, annual status and trends, management precision (need to collect the right information to improve this).
- M&E Plan for 2011
    - Identified three M&E Purposes:
      - Test Key Assumptions
        - Natural and hatchery production
        - Interactions between hatchery and natural populations
      - Track Status and Trends of Populations and Fisheries
      - Improve Adaptive Management effectiveness

**Action Items:**

- Lars to update the spreadsheets and post to FTC website by December 8.

- Lars to create separate spreadsheet for each of the populations to guide discussions at workshop December 14 and 15.
- All to review updated spreadsheets prior to December 14. Test by entering various inputs into yellow cells.
- Lars to send Mark appendices to upload to the FTC website by December 8.
- Mark to provide cutthroat data to Lars and Andy where applicable ASAP.
- Pat and Sara to provide Lars and Andy undated information for Table 2-11 on goals for harvest by species and location after December 9 Ad Hoc Meeting (ASAP).
- In next draft FHMP Update document Andy and Lars to address following FTC feedback:
  - Show numbers and percentages of natural origin fish used for hatchery broodstock.
  - Change biological targets for decision rules from 20% pNOB and pHOS to 30%.
  - For Hatchery Production Summary:
    - Add row for upper river spring Chinook (show 0 for 2011)
    - Add lbs. for all
    - Add broodstock number for cutthroat
  - Include source for all tables.
  - Move 2.5.2 – 2.5.7 and 3.13 to a different section titled “Other Related Issues”?
  - Pat to provide edits to initial paragraph for Productivity Testing ASAP.

### **Agenda Item: Approval of November 2, 2010 Meeting Summary**

We approved the November 2, 2010 meeting summary with clarifying edits.

### **Agenda Item: Update Status of Prior Action Items**

**Presenter: Lyn**

#### **Prior Action Items:**

- Brad and Tim to discuss commuting together.
- Pat will bring handout from Ray B to Dec. 14 workshop. Address whether the population for upper Cowlitz and Cispus Rivers are combined on Table 3 and run the numbers for the primary population for the Tilton only. Abundance numbers (for productivity test) need to be agreed to by FTC.

#### **DFPT:**

- Chick and AI to provide some examples to Michelle of schedules of implementation ASAP.
- Chick and AI to provide explanation of additional data collection re changing the location of the Riffe Lake Collector based on the 2010 USGS fish tracking data.
- Mark to post Study Plan used to yield USGS data (in letter dated September 27, 2010).

## **Agenda Item: Meeting Evaluation**

### **Well Done:**

- Good discussions
- Excellent presentation by Lars and Andy

### **Do Differently:**

- Start on time
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The meeting was adjourned at 2:20 pm.

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## **Meeting Handouts**

- Agenda for December 7, 2010 FTC meeting
  - Draft of November 2, 2010 FTC Meeting summary
  - Driving directions for December 14 and 15 workshop
  - Draft PowerPoint of Draft FHMP Update, December 7, 2010
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## **Draft Agenda for Dec. 14, 15 FHMP Update Workshop in Ridgefield)**

Single Topic: Make decisions around the content of the FHMP update

## **Draft Agenda for Jan. 4, 2011 FTC Meeting**

9:00 – 9:30	Welcome / Review Agenda / Check-In Update on the Cowlitz River Ad Hoc Group
9:30 – 10:00	Update of Progress by Downstream Team (90% design in March)
10:00 – Noon	Discuss Revised Draft FHMP Update
Noon – 12:30	Our Usual Working Lunch
12:30 – 1:00	Plan for Next Public Meeting/Briefings (Get FHMP Update out prior so all will have had an opportunity to review. Provide two public meetings with one more general and another more technical in nature?)
1:00 – 2:00	Report on Supplemental Collection Efforts for 2010 Discussion of Supplemental Collection Plans for 2011 Status of FHMP Update (Workshop debrief, etc.)
2:00 – 2:30	Approval of December Meeting Summary Evaluate the Meeting and Plan Topics for Feb. 1, 2011 Meeting