

PRCC Hatchery Subcommittee Meeting

Meeting Minutes

Thursday, June 18th & Friday, June 19th, 2009
Cedar's Inn – 80 Ninth St. NE. East Wenatchee

Attendees

Speros Doulos, USFWS (discussion of LWSNFH only)
Curt Dotson, GCPUD (second day only)
Bill Gale, USFWS
Ross Hendrick, GCPUD (second day only)
Russ Langshaw, GCPUD
Jerry Marco, CCT (first day only)
Keely Murdoch, YN
Todd Pearsons, GCPUD
Kris Petersen, NMFS
Julie Pyper, Chelan PUD (first day only)
Tom Scribner, YN (Phone)
Charlie Strom, YN (Phone, discussion of Cle Elum Hatchery only)
Kirk Truscott, WDFW
Elizabeth McManus, Facilitator
Patrick Donovan, Facilitator

Action Items:

1. Elizabeth and Patrick will coordinate with Jerry Marco and Bill Gale to add CCT and USFWS plan review dates to the PRCC HSC calendar.
2. Elizabeth will incorporate requested changes into the HSC protocols as described in the summary of the protocols discussion (below) and will work with Denny Rhor to draft a flow chart showing the relationships between the various committees and subcommittees.
3. Elizabeth and Patrick will create a flow chart showing monthly due dates for HSC meeting agendas, materials, and summaries.
4. Elizabeth will distribute the HSC copy email list to committee members for review.
5. Elizabeth will distribute to the HSC a track changes version of all unapproved past meeting summaries (i.e. November through April).
6. Charlie Strom of the YN will email Elizabeth the Density Index (DI) and Flow Index (FI) for the Cle Elum hatchery.
7. Bill and Kirk will circulate the draft Grant PUD Nason Creek Fish Rearing Alternatives report to USFWS and WDFW fish pathology staff for internal review.
8. Elizabeth will work with HSC members to explore an SOA or other statement of direction on Nason Creek.
9. All HSC members will provide any final substantive comments on the White River and Nason Creek Spring Chinook HGMPs and the overall draft M&E plan at or before the July HSC meeting.
10. Kirk will send BKD profiles, specifically the Chiwawa BKD profile, to Grant PUD; Kirk also will send any information on previous White River experience with microelement analysis.

11. Kirk and Keely will provide an update on the planned path forward for the Wenatchee Spring Chinook Implementation plan at the July meeting.
12. Elizabeth and Todd will assemble a package of redline versions and comments of the Nason Spring Chinook HGMP, White River Spring Chinook HGMP, and the overall M&E plan for distribution to the HSC by 6/19/09.
13. YN will copy Elizabeth on future Spring Chinook Smolt Trap reports and Elizabeth will distribute the reports to HSC.
14. Grant PUD will follow-up with WDFW and YN to talk about aquaculture, contracting and acclimation in 2010.
15. Mary Bayer, Fisheries Biologist with the LWSNFH will provide Elizabeth with an update on returning White River fish for the July HSC meeting.
16. Grant PUD will follow up with Speros on FLOY tagging and genetic testing for any White River fish that turn up at the LWSNFH.
17. Grant PUD will follow-up with the HSC about discharge permitting for the Gloyd Springs site.
18. YN and Grant PUD will work on an SOA or other statement of direction on the Dryden left bank site.
19. Elizabeth will distribute to the HSC a short list of HSC status bullet points for internal review prior to giving the update at the PRCC meeting.

Decisions:

1. The HSC voted and approved the Steelhead SOA as edited during the meeting. (Final version attached.)
2. The HSC agreed that any White River fish that stray to the LWSNFH will be trucked up to the White River and released at Tall Timbers in approximately mid-July.

Meeting Summary Day 1

- I. **Welcome and Agenda Review** - Elizabeth welcomed the Priest Rapids Coordinating Committee (PRCC) Hatchery Subcommittee (HSC). Elizabeth reviewed the agenda items. The HSC agreed to discuss what to do with any White River fish that may return to the Little White Salmon National Fish Hatchery (LWSNFH) first thing on Friday morning. Speros Doulos, LWSNFH hatchery manager will call in for the discussion.
- II. **Action Items Review & Other Committee Updates** – Elizabeth reviewed and provided updates to the action items identified during the May HSC meeting. The following items were discussed in substance.
 - Fish at the LWSNFH. The HSC discussed the current status of White River fish returning to the Little White Salmon National Fish Hatchery (LWSNFH). Currently no White River fish have returned. Additional sorting of fish will take place during the first week in July and if White River fish are present the hatchery will need to decide what to do with them. This will be discussed Friday morning.

- Methow Spring Chinook HGMP. Todd Pearsons contacted Douglas PUD and clarified that Grant PUD funded actions can be included in the Methow Spring Chinook HGMP.
- PRCC HSC Calendar. Elizabeth and Patrick distributed an HSC calendar depicting June through December 2009 HSC meeting dates and plan review/ due dates (e.g. HGMP, APP, M&E). Elizabeth and Patrick will coordinate with Jerry Marco and Bill Gale to add CCT and USFWS plan submittal dates to the calendar and will update the calendar with any plan review deadlines or other dates agreed to by the HSC. In discussing the calendar and dates for upcoming meetings, some HSC members expressed interest in field trips. In particular, visits to the Dryden and Nason Creek sites. Elizabeth and Patrick will work with Grant PUD and other HSC members to gauge interest in field trips with a goal of offering some site visits in the Fall. HSC members indicated that any field trips should be coordinated with HSC meeting dates to facilitate attendance.
- May Meeting Summary. The HSC reviewed the May meeting summary and made a number of corrections and clarifications. The revised summary was then approved by the HSC. (A redline/strikeout draft showing changes and clarifications made will be posted to the secure HSC website.)
- Past meeting summaries. The April HSC conference call summary was inadvertently distributed in-place of the April HSC monthly meeting summary. Elizabeth and Patrick will locate and distribute the HSC April meeting summary. So far, no comments have been received on the March or April meeting and conference call summaries. The HSC will set a goal of reviewing and acting upon these summaries at the July meeting. The HSC also discussed the viability of voting on and approving all other past meeting summaries in July (November 2008 – February 2009). Because these summaries are so old, HSC members discussed simply approving them as to form without attempting to fully resolve any discrepancies/comments. If this were done, summaries would include a note explaining that in some cases the HSC did not agree on how to accurately summarize the meeting and in these cases a range of views of the HSC members present is included in the summary. Elizabeth and Patrick will organize all the meeting summaries and send a package of draft-final meetings summaries to the HSC to review and, hopefully, act upon in July.

III. Review of Revised Draft HSC Protocols – The HSC reviewed and discussed a revised draft of their meeting protocols. HSC members requested the following additional clarifications and revisions.

- Purpose –The HSC discussed adding language to address the nature of the committee as being technical, policy, or the combination thereof. HSC members expressed concern that strictly referring to the HSC as being only policy and/ or only technically based might confuse the committee’s purpose.

The HSC further discussed and agreed that, even though the committee was not formed to create policy, because it is responsible for implementation “all things hatchery” it will deal with a combination of technical and policy issues, even as individual HSC members generally will reflect (rather than make) policy for their agencies at HSC meetings. Elizabeth will work with Pearsons to draft language which accurately describe the HSC purpose.

- Meetings. The protocols will be revised to add a start and end time for monthly HSC meetings and to further clarify special meetings. The HSC discussed and agreed that the reference to “two additional HSC members” refers to “two HSC members total.”
- Meeting Agendas, Materials, and Summaries: HSC members discussed and agreed to create a flow chart depicting monthly meeting material due dates. Elizabeth reminded HSC members that all meeting materials can be accessed via a secure FTP site hosted by Grant PUD. The HSC discussed and agreed that draft meeting summaries should be sent exclusively to Subcommittee members, alternates, and others who attended and contributed to the meeting being summarized, and available only on the secure FTP site. Final meeting minutes will be sent out to the larger distribution list and available on the public website for the HSC.
- Meeting Facilitation. The protocols will be revised to include the language from the SSA on facilitator selection (the SSA language refers to the PRCC but HSC members would like it to be applied to the HSC too as part of the HSC’s development of procedures and protocols). The HSC agreed that the facilitator evaluation should take place annually.
- Decision Making and Dispute Resolution. The HSC discussed and agreed to include written communications as an acceptable way of providing consensus.
- Appendix B. The HSC discussed and agreed to add language to ground rule eight to ask that HSC members identify, where appropriate, when an issue is either technical or policy based.

IV. Nason Creek Water Issues and Alternatives

A. Cle Elum Hatchery Operations – Charles Strom, Yakama Nation (YN) briefed the HSC on the following design details of the Cle Elum Hatchery and the pros and cons of using surface water to rear fish.

- The Cle Elum hatchery has been in operation since 1997.
- Hatchery operations utilize both surface and ground water.
- A majority of the hatchery rearing is done with surface water ranging between 38 and 65 degrees Fahrenheit.
- Seasonal issues primarily pertain to blockages created by weather.

- Primary fish health issue is seasonal Ichthyophthirius Multifiliis or “ich”, which primarily occurs during the month of August when water temperatures reach between 62 and 63 degrees Fahrenheit. The hatchery’s chief method of treating ich is to lower pond depths halfway to increase water turnover.
- The hatchery pumps ground water from five separate wells at an average rate of 2,500gpm to 3,000gpm. Groundwater is primarily used for incubation and very early rearing, as make up water and in situations when the river intake is blocked.
- The Cle Elum Hatchery culls for bacterial kidney disease (BKD) by testing all females and using the National Fish and Wildlife scale. Except for 2001, from 1997 to 2009, on average, less than 2% of females test out at the five or greater limit. In 2001 they experienced a 50% rate of BKD which is thought to be due to high water temperatures.
- Spawning above the hatchery water source primarily takes place 12-miles upriver. Andrew Dittman with NMFS is currently conducting homing studies with all Cle Elum Hatchery fish and may have information about spawning closer to the hatchery. Pearsons will follow up with Andy to get the current information on spawning locations and timing.
- Hatchery operations do not include water recirculation. All water used is single pass.
- Charlie Strom will email Elizabeth both the Density Index’s (DI) and Flow Index’s (FI) of the Cle Elum Hatchery for distribution to the HSC.

B. Water Alternatives – Grant PUD briefed the HSC on the results of internal evaluations of fish rearing alternatives for artificial propagation of the Nason Creek Spring Chinook Salmon population. Alternatives discussed include: 1) rearing at multiple sites within the basin, 2) locating a rearing facility out of basin, or 3) utilizing an experimental approach where a combination of surface water and re-circulated water are tested for success in rearing. Based on their analysis, Grant PUD proposed option 3, a phased, experimental hatchery design where in the first phase 50,000 fish are reared on re-circulated ground water, 50,000 are reared on surface water and 50,000 (a control group) are reared on ground water only. The hatchery would be designed so that the program could be adjusted based on the results of the experiment, e.g., if it is shown that re-circulated ground water has the best performance, then there would be plumbing stubs, etc., in place to switch the full program to re-circulated ground water. The following issues were discussed in substance.

- There was interest in the experimental design but concern that it would be difficult for Grant PUD to implement the findings if the experimental phase shows that ground water only gives the best performance. HSC members expressed the need for a firm commitment from Grant PUD to act on the results of any experiment even if the actions would prove to be difficult/expensive.
- There also was concern about where the balance of the program fish (an additional 100K) would be reared. WDFW and other HSC members in particular were not comfortable with the risks of rearing those fish on surface

water during the experiment and expressed interest in finding alternative rearing sites for those fish during the experimental phase.

- Some HSC members are very supportive of a surface water approach, believing that the more natural temperature regimes benefit fish. HSC members discussed whether a re-circulated surface water scenario as an additional rearing alternative and observed that sterilization would almost certainly be necessary for re-circulated surface water as would, over time, chilling.
- The HSC agreed to clarify the discussion of the surface water alternative so it is clear that surface water would be tempered with ground water during summer months. The HSC agreed that the reference to “Raw Surface Water” within the Grant PUD alternatives analysis document and presentation should be renamed to “Raw Surface Water with Tempering”.
- HSC members expressed the need to have Grant PUD provide the HSC with the costs associated with treating surface water versus the costs associated with re-circulating water. Grant PUD engineers and designers will provide the HSC with cost estimates of surface water alternatives and re-circulated water alternative.
- HSC members questioned whether current groundwater levels could sustain the hatchery program under a re-circulated groundwater alternative. Ross Hendrick will provide the HSC with Grant PUD engineer calculations supporting the use of existing re-circulated groundwater as a viable water source for the Nason Creek Hatchery program.
- The HSC discussed what additional information would be necessary to make a directional decision in July. The HSC made the following comments and requests for information. These items will be added as July discussion topics.
 - A normalized comparison depicting the number of spawners per flow.
 - Whether or not culling is an acceptable fish health management strategy, if BKD were to become an issue.
 - The fish health perspective for risks associated with surface water and re-circulated groundwater. Ray Brunson, USFWS and the fish pathologist from WDFW will be invited to talk with the HSC about fish health and risks.
 - Bill and Kirk will circulate the Grant PUD Fish Rearing Alternatives report to WDFW Pathology staff for internal review.
 - Kirk to provide BKD profiles, specifically the Chiwawa BKD profile to Grant PUD.
- The HSC discussed and acknowledged members varying tolerances for risk as it relates to rearing alternatives. Elizabeth and Patrick will work with HSC members between June and July meeting to ensure that enough information is brought forward for the HSC to set some direction for Nason Creek in July.

V. Wenatchee Spring Chinook Implementation Plan - Keely Murdoch briefed the HSC on the status of the draft implementation plan (ver. March 16 200p). The plan

status remains unchanged from the May HSC meeting. The HSC had the following discussion.

- The HSC discussed the value of having the co-managers finalize the plan. In some ways, members thought that the plan should remain a living and draft document. Some of the Joint Fisheries Parties (JFP) thought that JFP review and consensus was needed before further revisions were made. Grant PUD asked when it would have an opportunity to discuss the substance of its comments on the implementation plan. The path forward for the implementation plan was not resolved, the co-managers will continue discussions of the implementation plan, the JFP may meet to discuss the plan, and the HSC will discuss it again in July. Keely and Kirk will provide an update on the co-managers plans for the implementation plan in July.
- Todd briefed the HSC on the status of Grant PUD's comments on the draft implementation plan. Grant PUD had commented on the earlier draft of the implementation plan and will submit additional comments on the revised draft. Grant's remaining comments will be outlined in two separate response letters to be sent out during the week of June 22nd.
- Todd asked for input on how best to incorporate the directions in the implementation plan into the HGMPs under development. In general, Grant PUD is cutting and pasting from the appropriate sections of the implementation plan to populate the HGMPs, making clarifications and filling gaps as needed. Where the implementation plan has been revised to allow for a variety of approaches to a particular activity (e.g., broodstock collection), the challenge will be to provide enough specificity in the HGMP to support NMFS's review.
- The HSC discussed options for broodstock collection in some detail. Options include parentage-based tagging (PBTs) approaches including genetic testing, microarrays, and microelements, and weirs. Grant PUD suggested a "lab summit" where HSC members could, together, learn more about the various options. Other HSC members suggested that it would be better to simply develop an RFP and review the proposals that are submitted. Kirk mentioned some WDFW experience with microelement testing and will provide that information to the HSC. The HSC discussed that the HGMP might allow for a range of approaches, with the exact methodology to be determined during implementation. HSC discussion of the best method for broodstock collection will continue.
- Jerry briefly discussed the CCT's thoughts on the implementation plan. Many/most of their concerns have been addressed in the revised draft plan. They are most interested with the safety net aspects of the program.

VI. Nason Creek and White River Spring Chinook HGMPs

- A. Revisions to the draft HGMPs** – Revisions have been made based on comments received from two HSC members (WDFW and YN). Elizabeth will assemble a package of all comments submitted to date and distribute them to the HSC. In addition to comments previously submitted, the YN asked that the White River

HGMP include a review of the results to date from the captive brood program. HSC members did not offer other comments on the HGMPs at the meeting.

- B. Take tables** –Grant PUD is currently incorporating implementation plan materials and completing take tables. The HSC reviewed the take tables for the LWSNFH. The HSC agreed to the general take table format and further agreed take tables should clearly identify what the action is that is causing the take and what the level of that take is.
- C. Path forward/ Next Steps** - The HSC discussed and agreed to the following review schedule for the Nason Creek and White River draft HGMPs and the overall M&E plan.
- June 30: Grant PUD will submit drafts submitted to NMFS. The cover letter will explain that drafts have been to the HSC for an opportunity for consultation and that comments received have been addressed, but that the HSC has not taken final action on the plans.
 - June 30 – July 15: HSC members are encourage to send any substantive issues to Grant PUD as soon as they are identified during review of the plans, so they can begin working towards resolution.
 - July 16: July HSC meeting. Committee members will provide any remaining “big issue,” substantive comments at or before the July 16th meeting so that the HSC can reach conceptual agreement on the plans at the meeting. If possible, committee members will bring all comments to the July meeting.
 - July 16 – August 10: Grant PUD and the Committee continue to work any “big issues” to resolution. This may include special meetings or conferences calls of the HSC if needed.
 - July 31: Final deadline for all comments from all committee members on the draft plans. New comments received at this point should be simple clarifications, language tweaks and the like, since any big issues will have been raise at or before the July 16th HSC meeting. Elizabeth and Patrick will compile comments and distribute them to the HSC so everyone has a copy of everyone else’s comments.
 - August 10: Grant PUD will provide revised, final draft HGMPs to the committee.
 - August 20: August HSC meeting; the committee will vote on the HGMPs.
 - August 30: NMFS’s goal is to go to public notice on the draft HGMPs (step (5) on Kris’ timeline) before the end of August.

VII. Methow Spring Chinook APP

- A. Coordination with Douglas PUD** - Douglas PUD has agreed to have the Grant PUD funded components of the program stay within the Douglas HGMP. The APP will reference the Douglas PUD HGMP and can be moved forward and reviewed in advance of the Douglas PUD HGMP.
- B. Revisions to the draft APP based on comments** - No comments have been submitted by HSC members. The HSC provided the following comments on the draft APP at the meeting.

- Acclimation sites in the upper Methow will be needed and participation in finding and developing those sites should be part of Grant PUD's commitment to the overall Methow Spring Chinook program and addressed in the Douglas PUD HGMP.
- The APP needs to acknowledge that an acclimation site and/ or improvements at the Methow Hatchery may become part of the Grant PUD program.
- The JFP acknowledge the need for them to discuss acclimation sites and relationships to the Winthrop hatchery, and possible synergies that may be raised to provide further direction on these issues.

VIII. Revised Steelhead SOA

A. Questions, review and refinement on the revised draft SOA - Jerry briefed the HSC on the following changes made to the SOA since the May meeting.

- First sentence: Identified Salmon Creek and Omak Creek, and
- First bullet: added language referencing measure of success.

B. Voting or next steps, as appropriate - The HSC voted and accepted the Steelhead SOA as edited and projected on the screen.

IX. Permit Brainstorming – NMFS invited the HSC to brainstorm on possible permitting strategies. The HSC discussed the feasibility of NMFS issuing permits to each PUD and as necessary to one of the management agencies (e.g. WDFW) that is primarily responsible for the activity being permitted. The intent would be to simplify the permitting process. HSC members agreed to brainstorm individually on this issue and to contact Kris Petersen with any ideas and/ or issues.

X. Remaining Program Updates

A. Spring Chinook –smolt trap update - The traps are being checked every hour. The YN will copy Elizabeth on submittal of smolt trap reports and she will distribute to HSC.

B. Spring Chinook

- WDFW collected 425 fry and transferred approximately 400.
- An Anchor QEA water quality analysis concluded that there were no differences between the water quality near pen sample sites and sites fare distance away from the pen sites in Lake Wenatchee. Grant PUD will follow-up with WDFW and YN to talk about aquaculture, contracting and acclimation in 2010.

C. Fall Chinook – Working Group Update – The workgroup submitted a flow fluctuation report that identifies Grant PUD's contributions to fluctuations in the Hanford Reach. The workgroup is in the process of developing a study plan due June 30, 2009 and will not meet as a group in July.

D. Fall Chinook – Mass Marking Dispute Resolution Update - Discussions between WDFW and YN continue.

E. Sockeye - Dave Duvall and Chris Carlson of Grant PUD have asked to provide a status update on the Sockeye program during the August HSC meeting.

Draft Meeting Summary Day 2

I. Update on the LWSNFH - Speros Doulos, LWSNFH hatchery manager briefed the HSC on the current status of the LWSNFH and clarified the following questions asked by committee members. The HSC had the following discussion.

- The hatchery has two adult fish holding ponds that can be segregated. After inoculations, all fish will be placed in one pond. Any fish that are of White River origin will be passed over to empty holding pond.
- HSC members discussed and agreed that any White River fish that stray to the LWSNFH will be trucked up to the White River and released at Tall Timbers in approximately mid-July (so far no stray fish have been found). The HSC discussed the idea of transferring only female fish, but eventually decided to transfer all White River fish (males and females).
- HSC requested that Speros provide an update on the number of White River fish that have returned to the LWSNFH and the male to female ratio. This will be added as a July agenda item. Mary Bayer, Fisheries Biologist with the LWSNFH will provide Elizabeth with an update on returning fish for distribution before the July HSC meeting.
- The HSC discussed and agreed on the use of FLOY tags for returning White River fish. Russell will send Speros a FLOY gun and tags, if needed.
- The HSC discussed and decided that Speros should take genetic samples of any White River fish encountered. Russell will follow-up with Speros on genetic sampling.

II. Review of Overall M&E Plan

A. Revisions to the draft M&E – Revisions to the overall M&E plan are based on comments submitted by one HSC member (YN).

B. Remaining issues and discussion – The HSC reviewed and discussed elements of the introduction, objectives, and field method tables as provided within the overall M&E plan. The following comments and clarifications were made.

- HSC members discussed and agreed to add the following language to the end of the introduction section of the M&E plan, “This document is intended to be a living document and is subject to change as new information becomes available. This document will be reviewed as needed by the HSC”.
- The HSC reviewed the objectives of the M&E plan and discussed the need to sync review of the M&E plan with the HCP programs. The HSC agreed that they preferred this method over biannual reviews.
- Pearsons reviewed the field method tables as provided within the overall M&E for the White River, Nason Creek, and Methow River spring Chinook M&E; the Wenatchee, Methow, and Okanogan River summer Chinook M&E;

the Hanford Reach; the fall Chinook M&E; and the Steelhead, Sockeye, and Coho M&E. HSC members made specific wording clarifications and corrections and raised more thematic issues. The specific wording clarifications and corrections will be captured in the revised draft document which will be provided to the HSC in advance of their July meeting.

C. Path forward for submittal June 30. – The HSC agreed that the overall M&E plan would follow the same comment/review cycle and deadlines as the Nason Creek and White River HGMPs.

III. Review of Priest Rapids Hatchery Fall Chinook Salmon M&E Plan – Todd reviewed the objectives, hypotheses, variables, and methods of the M&E plan. HSC members made specific wording clarifications and corrections and raised more thematic issues. The specific wording clarifications and corrections will be captured in the revised draft M&E plan which will be provided to the HSC in advance of the July meeting, and are not summarized here.

IV. Update on Summer Chinook Program –Curt Dotson, Grant PUD briefed the HSC on potential facilities to rear Summer Chinook. Sites include Gloyd Springs, Dryden Left Bank Pond, and alternative sites being considered.

A. Overview of Gloyd Springs – The Washington State Department of Ecology (DOE) issued Grant PUD a deep water well permit for this site. Grant PUD is seeking proposals to conduct a drawdown analysis on the site to assure that the cone effect won't impact neighboring wells. Access issues are being worked out. In general, things are looking better for the Gloyd Springs site. Curt will follow-up with the HSC about the status of discharge permitting.

B. Review of the Dryden Left Bank Pond – Anchor QEA reviewed well drilling logs for purposes of locating possible water rights for the Dryden Left and Right Bank sites. The JFP are very focused on trying to make the Dryden Left Bank site work. This raises issues of certainty and predictability – since using this site depends on capacity being freed up from the Chelan PUD program and if this capacity doesn't endure, Grant PUD's investment could be at risk (i.e., it would not be able to meet its mitigation requirements using facilities it funded). The YN and Grant PUD are going to work on an SOA to establish committee direction on this issue.

C. Review of Other Sites Considered – Grant PUD land staff are researching potential sites near WDFW access, downstream of Dryden Pond. Additionally, land staff are looking at reviewing water rights issues, zoning, and barriers for Carlton Pond, which is located on the Methow River.

XI. June PRCC Meeting - The HSC discussed and agreed that Elizabeth would provide the HSC status update at the PRCC meeting and would highlight decisions made during the June meeting and draft July agenda topics. Kirk explained that he would talk with Heather Bartlett, WDFW about Dryden Left and Right Bank sites and potential SOA issues and that Heather might raise the issue at the PRCC. Elizabeth

will distribute to the HSC a short list of draft bullet points to review prior to the PRCC meeting. July agenda item will be to discuss who will cover HSC status updates at future PRCC meetings.

XII. July Meeting topics – The HSC discussed the following meeting topics for the July meeting:

- Revised draft HSC protocols, with an intention of acting on protocols if possible.
- Wenatchee Spring Chinook Implementation Plan.
- Any final substantive comments on the White River and Nason Creek HGMPs and the overall M&E plan.
- Nason Creek water alternatives, with an intention to set direction so the Nason Creek work can move into the next phase.
- Dryden left bank alternatives/path forward.
- Priest River Hatchery design issues/update table.
- Development of remaining review time lines and schedules for other near-term HGMPs (Fall Chinook including the Fall Chinook M&E plan, and the Methow Spring Chinook APP)