

## FINAL MEMORANDUM

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**To:** Wells, Rocky Reach, and Rock Island HCPs Hatchery Committees      **Date:** May 16, 2013  
**From:** Mike Schiewe, Chair  
**Cc:** Kristi Geris and Emily Pizzichemi  
**Re:** Final Minutes of the April 17, 2013 HCP Hatchery Committees Meeting

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Hatchery Committees' meeting was held at Chelan PUD headquarters in Wenatchee, Washington, on Wednesday, April 17, 2013, from 9:30 am to 2:30 pm. Attendees are listed in Attachment A to these meeting minutes.

### ACTION ITEM SUMMARY

- Greg Mackey will provide the Wells Hatchery Modernization Master Plan to the Hatchery Committees for review, when available (Item I).
  - Chelan PUD, Douglas PUD, Grant PUD, and the Colville Confederated Tribes (CCT) will discuss proportional responsibilities for funding run-composition sampling at Wells Dam for summer Chinook; and an update will be provided on the discussions at the Hatchery Committees May 15, 2013, meeting (Item I).
  - National Marine Fisheries Service (NMFS) will have a standing agenda item to provide a Hatchery and Genetic Management Plan (HGMP) update at future Hatchery Committees meetings (Item I).
  - Mackey will provide the final Revised Analytical Framework 5-Year Update to Kristi Geris for distribution to the Hatchery Committees (Item II-A).
  - Douglas PUD and Chelan PUD will provide their final Statements of Agreement (SOAs) approving the Revised Analytical Framework 5-Year Update to Geris for distribution to the Hatchery Committees (Item II-A).
  - Representatives of the Hatchery Committees will submit recommendations for peer reviewers to participate along with Hatchery Committees members in the review of
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responses to the Chelan PUD Hatchery Monitoring and Evaluation (M&E) Request for Proposals (RFPs; Item II-A).

- Alene Underwood will provide the final SOA for the Carlton Acclimation Facility Capacity Utilization to Geris for distribution to the Hatchery Committees (Item III-A).
- Underwood will provide the revised Spring Chinook Pilot Study at Rocky Reach to Geris for distribution to the Hatchery Committees no later than April 19, 2013; email approval of the pilot study will be requested from Hatchery Committees representatives no later than April 26, 2013 (Item III-A).
- Lynn Hatcher will provide NMFS direction on what type of additional documentation is needed from the PUDs to obtain new permits (i.e., a full HGMP versus an updated program description) by Friday, April 26, 2013, including a timeline of when documents are needed, to Geris for distribution to the Hatchery Committees (Item IV-A).
- Hatchery Committees representatives will review Mackey's white paper on *Methods for Estimating Likelihoods of Outcomes in Broodstock-Collection* prior to the Hatchery Committees May 15, 2013, meeting, when the Committees will discuss its use in developing future broodstock protocols (Item IV-D).

## **STATEMENT OF AGREEMENT DECISION SUMMARY**

- The Douglas PUD SOA approving the revised Monitoring and Evaluation Plan for PUD Hatchery Programs: 2013 Update was approved by Hatchery Committees representatives (Item II-A).
- The Chelan PUD SOA approving the Revised Analytical Framework 5-Year Update was approved by Hatchery Committees representatives (Item II-A).
- The SOA for the Carlton Acclimation Facility Capacity Utilization was approved by Hatchery Committees representatives present (Item III-A).

## **AGREEMENTS**

- Hatchery Committees representatives present approved the Revised Analytical Framework 5-Year Update (Item II-A).
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- Hatchery Committees representatives present agreed that, in the event that Carson ancestry is detected in natural-origin fish collected for broodstock at Methow hatcheries, those fish will be retained and used for broodstock (Item V-A).

## REVIEW ITEMS

- The draft residual steelhead manuscript *Ecologic and demographic costs of releasing non-migratory juvenile hatchery steelhead in the Methow River, Washington* was distributed to the Hatchery Committees on February 19, 2013, for a 60-day review with comments due to Charlie Snow no later than April 22, 2013.
- Kristi Geris sent an email to the Hatchery Committees on April 1, 2013, notifying them that the draft 2012 Annual Chelan PUD Hatchery M&E Report is available for download from the FTP site and is out for a 30-day review period, with comments due to Tracy Hillman by April 30, 2013.

## FINALIZED REPORTS

- No reports have been finalized since the last Hatchery Committees meeting.

## I. Welcome, Agenda Review, Meeting Minutes, and Action Items

Mike Schiewe welcomed the Hatchery Committees and reviewed the agenda. The following revisions were made to the agenda:

- Mike Tonseth added an update on Chelan Falls summer Chinook.
- Greg Mackey added an update on Wells subyearling release numbers.

The revised draft March 20, 2013 meeting minutes were reviewed. Two outstanding comments were discussed.

- Regarding Chelan PUD's discussion on 2013 Wenatchee Steelhead Releases, Tonseth clarified that hatchery permits specify that non-migrants—not migrants—must be released in the lower Wenatchee River.
  - Regarding the discussion of the February M&E Progress Report for the Chelan PUD Hatchery Programs, Kirk Truscott clarified details of his question about the size of fish reared at the Chelan Falls Acclimation Facility.
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Kristi Geris said that all other comments and revisions received on the draft meeting minutes were incorporated. The Hatchery Committees members present approved the March 20, 2013 meeting minutes, as revised.

Action items from the last Hatchery Committees meeting on March 20, 2013, and follow-up discussions were as follows:

- *Mackey will provide the Wells Hatchery Modernization Master Plan to the Hatchery Committees for review, when it is available (Item I).*

Mackey said that Douglas PUD anticipates that the draft Master Plan will be complete by April 30, 2013, as which time he will provide it to the Hatchery Committees for review. Mackey reminded Committees members that the new Federal Energy Regulatory Commission (FERC) license requires agency reviews on many documents (such as this one), and because of uncertainty about FERC deadlines, will likely require expedited review. Mackey noted that the Master Plan, excluding the appendices, includes bio-programming and other conceptual information, but will not include detailed engineering or design specifications. Keely Murdoch asked if an additional review will be held for the engineering specifications, and Mackey replied that Douglas PUD had not yet planned for one. He said, however, that the HCP Coordinating Committees and NMFS will review plans related to fish passage. Murdoch noted that for the Priest Rapids Hatchery rebuild, Grant PUD held meetings where the engineers explained the designs to those interested. She said that these meetings included discussions that resulted in design changes, and added that it may be beneficial to do something similar for the Wells Hatchery modernization. Bill Gale said that changes included significant improvements in how fish are handled, general hatchery operations, and worker safety. Mackey said that Douglas PUD had been considering inviting the HDR Engineering, Inc. (HDR) team to present details of the modernization at a future meeting. He also said that Jayson Wahls of the Washington Department of Fish and Wildlife (WDFW) has been involved in the entire process, and many design issues have been addressed on the ground level. Murdoch agreed that Wahls' involvement was good, but added that it still may be beneficial to obtain additional input from other sources. Tonseth added that the Hatchery Committees are responsible for making sure modifications do not compromise the programs. He also added that meeting with the engineers may help

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expedite moving the plans forward, opposed to scheduling additional review periods. Mackey said that Douglas PUD will discuss options for review of the engineering aspects of the modernization.

- *Chelan PUD, Douglas PUD, Grant PUD, and the CCT will meet to discuss proportional responsibilities for funding run-composition sampling at Wells Dam for summer Chinook; and Chelan PUD will provide an update on the discussions at the Hatchery Committees April 17, 2013 meeting (Item I).*

Alene Underwood said that Chelan PUD and Grant PUD staff had discussed the need for additional information before reaching any agreement. Peter Graf said that Grant PUD is now coordinating with Todd Miller at WDFW, and that discussions are underway. An update on progress will be provided at the Hatchery Committees May 15, 2013 meeting.

- *Hatcher will check on the status of internal NMFS discussions regarding processing of HGMPs for non-listed programs currently covered by Permit 1347 (Item II-A).*

Hatcher said that Craig Busack has received additional materials from the PUDs and that he is now in the process of determining if information received to date is sufficient to request a time extension on the current Permit 1347. Hatcher added that Busack said to contact him directly with any questions. Schiewe reminded the Hatchery Committees that NMFS needs a U.S. Fish and Wildlife Service (USFWS) consultation for bull trout and any other USFWS-listed species from the PUDs in order for NMFS to issue new permits. Gale recommended contacting Karl Halupka (USFWS), and added that Halupka will do his best to complete consultations in a timely manner. Hatcher said that NMFS, WDFW, and USFWS plan to hold a meeting on April 19, 2013 to discuss Section 7 permitting. Schiewe suggested that NMFS have a standing agenda item to provide a HGMP update at future Hatchery Committees meetings. Hatcher said that he would ask Busack about requesting a set time for the update.

- *Josh Murauskas will distribute a summary of changes to the revised draft Analytical Framework 5-Year Update to the Hatchery Committees no later than March 22, 2013. Following distribution of this list, Hatchery Committees representatives will provide a list of additional objective-level change that should be considered, if any, including suggested revisions, to Geris for distribution to the Hatchery Committees no later than April 5, 2013 (Item IV-A).*
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Murauskas provided a summary of changes to the revised draft Analytical Framework 5-Year Update as distributed to the Hatchery Committees by Geris on March 22, 2013.

- *Underwood will revise and redistribute Chelan PUD's pilot study proposal to trap spring-run Chinook salmon at Rocky Reach Dam in 2013, as recommended; and Chelan PUD will also brief Gale on the details of the proposal (Item IV-D).*

Underwood provided Chelan PUD's revised pilot study proposal as distributed to the Hatchery Committees by Geris on April 16, 2013.

- *Hatchery Committees representatives will submit edits and comments on the draft 2013 Upper Columbia River Salmon and Steelhead Broodstock Objectives and Site-Based Broodstock Collection Protocols to Tonseth no later than April 8, 2013 (Item VI-A).*

Tonseth said that he will discuss pending comments during his agenda item today.

## **II. Chelan PUD, Douglas PUD, Grant PUD**

### **A. *DECISION: Revised Monitoring and Evaluation Plan for PUD Hatchery Programs: 2013 Update (Alene Underwood and Greg Mackey)***

Greg Mackey said that the 5-year update of the M&E plan titled "Monitoring and Evaluation for PUD Hatchery Programs: 2013 Update" was distributed to the Hatchery Committees by Kristi Geris on March 19, 2013, for final review. Keely Murdoch provided comments on the revised draft update on April 11, 2013. Kirk Truscott also provided verbal comments on the draft update. Mackey said that, with Murdoch's and Truscott's comments addressed, a final draft was distributed to the Hatchery Committees by Geris on April 16, 2013. Mackey reviewed the changes with the Hatchery Committees and additional edits and clarifications were made to the document as recommended by Hatchery Committees representatives. Hatchery Committees representatives present approved the Monitoring and Evaluation for PUD Hatchery Programs: 2013 Update, and Mackey said that he will provide the final document to Geris for distribution to the Hatchery Committees.

Truscott asked if the Monitoring and Evaluation for PUD Hatchery Programs: 2013 Update will be the basis for RFPs to implement the program, and Alene Underwood replied that it will and that the document will also be appended to the RFPs. Underwood said that Chelan

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PUD plans to put out their Hatchery M&E RFPs for implementation in 2014 no later than mid-May 2013. She said that RFPs will be out for 2 months, and then proposals received will be reviewed by an expert panel. Joe Miller said that the expert panel is not yet in place yet, and that Chelan PUD plans to seek input from all Hatchery Committees representatives on the composition of the panel. Mike Tonseth noted that with the Monitoring and Evaluation for PUD Hatchery Programs: 2013 Update appended to the RFPs, alternative methods to achieve M&E objectives could potentially be proposed by parties. He asked if and when the Hatchery Committees will have a chance to review proposals submitted in response to the RFPs, and in particular any alternative methods? Mike Schiewe said that the review panel would include Hatchery Committees members that did not have a conflict of interest, as defined in the Hatchery Committees' Conflict of Interest Policy. He said that as outlined in the Policy, members with a conflict will not vote on or be asked to approve or disapprove proposals, but may, at the discretion of the Hatchery Committees participate in discussions on the proposals. Schiewe indicated that members without a conflict will participate on the review panel, and that all members will be asked to recommend external reviewers to assist in the review of proposals. Murdoch asked about the Hatchery Committees' review and approval of the annual Implementation Plans, which in the past has been completed prior to annual contracting. Underwood noted that the contractor(s) will have already been selected by the time the first Implementation Plan is reviewed. Murdoch said that there could be issues approving the Implementation Plan if the Hatchery Committees find that a contractor is unable to meet components of the Implementation Plan. She asked if any significant changes are anticipated with implementation, and Miller replied that he is not expecting anything. Murdoch asked about Douglas PUD's RFP process, and Mackey replied that Douglas PUD must periodically issue RFPs for contracts, but will not be on the same timeline as Chelan PUD's RFP process. Bill Gale asked about the Grant PUD process, and Peter Graf said that Grant PUD will go out with an RFP with Chelan PUD.

Schiewe reiterated that the Hatchery Committees members without a conflict of interest will be part of the expert review panel. All Hatchery Committees representatives will have the opportunity to recommend outside reviewers. Lynn Hatcher asked about limitations to who can be recommended for the panel in terms of cost, and then asked who funds the review. Underwood said that Chelan PUD and Grant PUD would take care of costs for individual reviewers. Murdoch asked how far removed a person would need to be from the conflicted

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party, and Schiewe replied that the Hatchery Committees Conflict of Interest Policy includes as a conflicted party someone who works for the same agency. Underwood added that this decision is also partly up to the discretion of the person in question—do they feel that they are conflicted? Gale noted that there are also several good, potential reviewers who are retired. The Hatchery Committees agreed to submit recommendations for peer reviewers to participate along with Hatchery Committees members in the review of responses to the Hatchery M&E RFPs.

Returning to the just-approved Hatchery M&E program document, Mackey said that Douglas PUD is also requesting approval of a SOA approving the Monitoring and Evaluation for PUD Hatchery Programs: 2013 Update. Douglas PUD's draft SOA was distributed to the Hatchery Committees by Geris on April 16, 2013. Mackey reviewed the SOA, and Hatchery Committees representatives provided comments and suggested revisions, including the addition of a conditional statement regarding the completion and approval of pending appendices. Underwood said that Chelan PUD is also planning to request approval of a SOA, and that they intend to use the same format and language as Douglas PUD.

The Hatchery Committees representatives present approved the Douglas PUD SOA as revised, and approved a Chelan PUD SOS contingent on the use of the same language as the revised Douglas PUD SOA. *(Note: Douglas PUD's final SOA [Attachment B], and Chelan PUD's final SOA [Attachment C] were distributed to the Hatchery Committees by Geris on April 19, 2013, and April 22, 2013, respectively.)*

### **III. Chelan PUD**

#### **A. DECISION: Carlton Acclimation Facility Capacity Utilization SOA (Alene Underwood)**

Alene Underwood said that the revised draft SOA for the Carlton Acclimation Facility Capacity Utilization was distributed to the Hatchery Committees by Kristi Geris on April 16, 2013. Underwood reminded the Hatchery Committees that the intent of this SOA is to merely recognize the existence of sufficient capacity at the Carlton Acclimation Facility to accommodate both Chelan PUD's 60,516 spring Chinook and Grant PUD's 200,000 summer Chinook programs, but does not obligate the Hatchery Committees to support Carlton as a

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permanent location for overwinter rearing Chelan PUD's spring Chinook obligation. Joe Miller added that the way the SOA was previously written seemed to imply approval of the Carlton Acclimation Facility as a permanent location for Chelan PUD.

Bill Gale questioned whether a SOA is really needed if the only intent is to recognize capacity at the Carlton Acclimation Facility, and Mike Schiewe said that the SOA supports Chelan PUD's relationship with Grant PUD at the facility. Gale also suggested indicating that the SOA only applies to brood year (BY) 2013, and Mike Tonseth recalled that agreement was already reached by the Hatchery Committees that Chelan PUD would use the Carlton Acclimation Facility for BY 2013, as documented in the Hatchery Committees December 12, 2012 meeting minutes. Miller added that specifying BY in the SOA will require a new SOA each year, which Chelan PUD would like to avoid. Gale said that Chelan PUD's spring Chinook program will need to be re-addressed in 2014 regardless, and Miller agreed in terms of the use of the facility, not capacity. Miller suggested adding a statement to the SOA reflecting that the use of the Carlton Acclimation Facility as a long-term location for overwinter rearing will be determined in the future by the Hatchery Committees. Schiewe also suggested adding a statement reflecting that the Hatchery Committees have previously agreed to use the Carlton Acclimation Facility for BY 2013. Gale asked if the Hatchery Committees should expect an additional SOA on how these fish will be marked and evaluated, and Tonseth replied that Chelan PUD has already plans to tag 25 percent with passive integrated transponder (PIT) tags.

Tonseth noted that the SOA acknowledges that the facility is capable of accommodating the programs; however, it does not state the actual capacity of the Carlton Acclimation Facility. Underwood said that the capacity of the facility has already been stated in previous documentation, and Gale suggested simply referencing that documentation.

Underwood incorporated all suggested revisions and the revised SOA for the Carlton Acclimation Facility Capacity Utilization was approved by Hatchery Committees representatives present. The final SOA for the Carlton Acclimation Facility Capacity Utilization (Attachment D) was distributed by Geris to the Hatchery Committees on April 18, 2013.

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***B. DECISION: Spring Chinook Pilot at Rocky Reach (Alene Underwood)***

Alene Underwood said that a revised Chelan PUD pilot study proposal to trap spring-run Chinook salmon at Rocky Reach Dam in 2013 was distributed to the Hatchery Committees by Kristi Geris on April 16, 2013. She said that, as requested at the Hatchery Committees March 20, 2013 meeting, an introductory paragraph was added providing a brief background on the purpose of the pilot study. Following distribution of the latest version of the draft pilot study she said that an additional paragraph about next steps was also added based on comments received from Bill Gale. Mike Tonseth requested that a refined description of trap operations also be included. Mike Schiewe noted that the HCP Coordinating Committees will also need to review this pilot study with regards to potential effects on fish passage. Kirk Truscott asked what data Chelan PUD will be collecting regarding trap efficiency, and Joe Miller replied that the pilot study proposes to simply document ease of operation and any potential problems that need to be addressed. Gale asked that if only ad-clipped fish are targeted, why not collect the fish to obtain additional data? Tonseth replied that collecting and handling the fish might require direct take coverage at Rocky Reach Dam. Underwood added that this pilot only aims to look at operation of the trap. Truscott asked about the efficiency of the trap when the ladder is full of fish. Miller responded that is one of the issues that the pilot study will address. Schiewe said that the Hatchery Committees need to come to agreement on exploring this trap as a collection location for broodstock, and the HCP Coordinating Committees will review the pilot from a fish passage issue perspective. Miller said that Chelan PUD will revise the draft pilot and redistribute it to the Hatchery Committees for email approval. Gale requested that the revisions clearly state the information gaps and how they will be addressed. Tonseth suggested outlining the questions that this year's evaluations are set to address, and also outlining the questions that still need to be addressed, and by whom (i.e., the Hatchery Committees and/or HCP Coordinating Committees). Schiewe reminded the Hatchery Committees that agreement needs to be reached soon because the spring run has already started.

Underwood said that she will provide the revised Spring Chinook Pilot at Rocky Reach to Geris for distribution to the Hatchery Committees no later than April 19, 2013, and email approval of the pilot study will be requested from Hatchery Committees representatives no later than April 26, 2013.

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### ***C. Dryden Update (Alene Underwood)***

Alene Underwood updated the Hatchery Committees on progress on Chelan PUD's plan for Dryden total maximum daily load (TMDL) compliance (Attachment E) that was originally distributed to the Hatchery Committees on July 18, 2012. The plan was redistributed to the Hatchery Committees by Kristi Geris on April 10, 2013. Regarding Action #1, Underwood said that Chelan PUD is currently conducting phosphorus sampling while fish are on station at the Dryden facility. She said that last year it took about one month to get results back. Regarding Action #2, Underwood said that the low phosphorous feed trial was not ready in time for the 2013 acclimation period; and added that Chelan PUD is still waiting for certain information to come together to move forward. She said that, as for 2014, it is uncertain whether the feed trial will be performed in conjunction with the size evaluation that is already planned. Regarding Action #3, Underwood said that samples are still being collected at Chelan Falls, and that she plans to touch base with the Leavenworth National Fish Hatchery to verify that the circular tanks are still on track to be completed by the end of 2013. Regarding Action #4, Underwood said that she has met with Northwest Fisheries Science Center scientists, Chris Moran, and Eastbank Fish Hatchery staff, and that evaluating 2012 brood is underway. Regarding Action #5, Underwood said that this year the fish on station will be the last of the 864,000 program, and that next year Chelan PUD will evaluate phosphorus discharges from the reduced program.

Also, in March 2013, Underwood said that there was an outbreak of fungus in the summer Chinook at the Dryden facility. She said that losses amounted to approximately 300 to 500 per day. Mike Tonseth said that the fungus was a secondary infection, and added that Bob Rogers has been looking into these losses and is finding deep tissue bruising in the fish. He also added that the bruising appears to be from a lateral hit, and that Rogers plans to evaluate the transportation vessels. Tonseth noted that while each year fungus is observed at the Dryden facility, these issues are not present at the Carlton facility which uses the same equipment. Tonseth said that this increases interest in evaluating the water quality at Dryden. Bill Gale also suggested that something may exist at the Dryden facility that causes additional stress in combination with the injury. Gale asked if the Dryden facility fish are always reared in the same raceways, and Tonseth replied that they are not. Mike Schiewe asked about temperatures of receiving versus rearing water at Dryden and Carlton, and

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Tonseth replied that they are relatively the similar. He added that fish transfers are only allowed when the water is equal to or less than a 10 degree difference.

#### **IV. Douglas PUD**

##### ***A. Wells Subyearling Release Numbers Update (Greg Mackey)***

Greg Mackey said that higher than typical hatchery survival at Wells Hatchery resulted in surplus subyearling summer Chinook for release in 2013. WDFW has inquired about what to do with the excess fish and identified a need at Prosser Fish Hatchery. Mackey said there are about 600,000 subyearling Chinook on station, of which about 500,000 will be tagged and released to fulfill the 484,000 subyearling Chinook mitigation component under the Wells HCP; the remaining 100,000 will be transferred to Prosser Fish Hatchery, which recently experienced a significant loss of summer Chinook due to a pump failure.

##### ***B. Wells Hatchery Master Plan (Greg Mackey)***

Greg Mackey discussed this agenda item during the review of action items from the last Hatchery Committees meeting on March 20, 2013.

##### ***C. HGMP for Wells Summer Chinook (Greg Mackey)***

Greg Mackey said that Rob Jones at NMFS indicated that Douglas PUD needs to provide a full HGMP for the Wells summer Chinook program. However, there has also been discussion of needing to submit only a program description. As a result, Mackey said that Douglas PUD develop an updated HGMP, which can serve both purposes. He said that Mike Tonseth has already reviewed the document and provided comments. The draft Wells Summer Chinook HGMP, along with a one-page Wells Summer Chinook HGMP summary, and a draft SOA approving the HGMP, were distributed to the Hatchery Committees by Kristi Geris on April 16, 2013. Mackey said that the updated HGMP is largely the same as the 2005 draft HGMP with the exception of incorporating at least 10 percent natural fish in the broodstock. Mackey said that effects on other species and populations were also updated with excerpts from the recent 5-Year M&E report. He added that it was modeled after the 2005 draft that Kirk Truscott developed, and also follows the current draft Methow Hatchery Spring Chinook HGMP.

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Mackey said that he is still unsure of when NMFS will need the program description and/or HGMP, and depending on that deadline, Douglas PUD may request an expedited Hatchery Committees review. Mike Tonseth noted that the timeline really depends on whether NMFS needs an actual HGMP or just a program description. He added that if NMFS only requests a program description, then it would seem that NMFS has already determined that only the program description will suffice to get permitted. Lynn Hatcher said that he will provide NMFS direction on what type of additional documentation is needed from the PUDs to obtain new permits (i.e., a full HGMP versus an updated program description), including a timeline of when documents are needed, to Geris for distribution to the Hatchery Committees by Friday, April 26, 2013. Joe Miller indicated that Chelan PUD is not planning to submit any new HGMPs pending further direction from NMFS.

***D. Methods for Estimating Likelihoods of Outcomes in Broodstock-Collection (Greg Mackey)***

Greg Mackey briefly reviewed and summarized his exploratory work on broodstock estimation and managing risk and expectations in broodstock collection that he presented at the Hatchery Committees February 20, 2013 meeting. He said that he has now incorporated parameters from the draft 2013 Broodstock Protocols into his analyses (Attachment F) to facilitate discussions on applying these methods to brood collection in 2013, or future years. *(Note: the presentation [Attachment F] was distributed to the Hatchery Committees by Kristi Geris on April 18, 2013.)* Mackey added that a white paper on the broodstock collection estimation approach was also distributed to the Hatchery Committees by Geris on April 9, 2013; however, a small revision was made to the paper and a revised draft will be distributed to the Hatchery Committees following the meeting.

Mackey briefly reviewed the broodstock collection formula, as discussed at the Hatchery Committees February 20, 2013 meeting. He then reviewed the Methow spring Chinook program with the draft 2013 Broodstock Protocols parameters used in the model (highlighted in tan in Attachment F). Mackey reminded the Hatchery Committees that these are not concrete values and are not intended to advocate anything, but rather are meant to inform decisionmaking. Bill Gale said that this formula seems to have real potential to ground truth the current methods of estimating broodstock needs. Mike Tonseth added that there are a few other things to consider when estimating broodstock requirements, depending on

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whether the program was for listed- and non-listed species, and the potential constraints of a 33 percent extraction rate for natural origin recruits (NORs). He said that, for example, the draft 2013 Broodstock Protocols estimated the need for 88 total Methow spring Chinook, including 20 hatchery- and 68 natural-origin adults to meet program goals. He said that additional natural-origin fish cannot be added because it would exceed the 33 percent extraction rate. As for listed programs, Tonseth said that NMFS may prefer to be under the production goal, rather than over (i.e., surplus). He said that all of these types of considerations need to be evaluated before modifying the protocols. Tonseth said that he has no objections to incorporating the use of Mackey's modeling approach, but exactly how it is used needs to be considered. Keely Murdoch said that she supports the use of Mackey's method if it helps to meet program goals. Tonseth suggested that it might be useful to test the formula this year on a pilot basis to guide collection of broodstock for the Wells subyearling Chinook program. Gale commented that the difficulty has not been with coming up with the numbers, *per se*, but rather collection logistics such as where and when to collect. Mike Schiewe noted that, if the draft 2013 Broodstock Protocols are modified, that WDFW needs to make sure the Hatchery Committees are included in the discussion and that better attention to version control is needed to avoid the same tracking issues experienced with the 2012 Broodstock Protocols. Mackey said that this information is meant more for use as a managerial tool—not necessarily to dictate the process. It can be used by managers to assess tradeoffs in risk of collecting too few or too many fish for broodstock. He said that the white paper on the broodstock collection estimation approach explains how this method works and how to use it. Hatchery Committees representatives said that they will review Mackey's white paper on *Methods for Estimating Likelihoods of Outcomes in Broodstock-Collection* prior to the Hatchery Committees May 15, 2013 meeting, when the Hatchery Committees will discuss its use in developing future broodstock protocols.

## **V. WDFW**

### **A. 2013 Broodstock Collection Protocols (Mike Tonseth)**

Mike Tonseth recalled the Hatchery Committees' decision to release 27 natural-origin Carson lineage adult spring Chinook, collected as broodstock for the Methow Hatchery program, into the Methow River in 2012; this was discussed at the Hatchery Committees June 20, 2012 meeting. He added that the Yakama Nation (YN) decided to abstain from the

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decision, and Keely Murdoch explained that the abstention was because the YN had not anticipated the need for a decision, nor had they had the opportunity to fully assess the potential outcomes. Tonseth said that the draft 2013 Broodstock Protocols was once again unclear on Carson ancestry, and that he would like to avoid a similar situation as in 2012. Tonseth said that because numbers of returning NORs are expected to be limited in 2013, Hatchery fish will need to be incorporated to meet program obligations. He said that from this perspective, he sees the question as: what is better to retain for broodstock—natural-origin fish with some degree of Carson lineage or hatchery origin fish which may possess a lower degree of Carson lineage? Hatchery Committees representatives present agreed that, in the event that Carson ancestry is detected in natural origin fish collected for broodstock, those fish will be retained and used for broodstock. Tonseth said that this decision will be reflected in the 2013 Broodstock Protocols.

### ***B. Chelan Falls Summer Chinook Update (Mike Tonseth)***

Mike Tonseth said that Bob Rogers recently contacted him about an emerging fish health issue with summer Chinook at Chelan Falls Hatchery. Tonseth said that Rogers initially thought it was a bacterial gill disease related to gas bubble trauma (BGD). He said that fish were dying in Circulars 1 and 2, with the fish Circular 2 dying more rapidly. He added that the dissolved oxygen (DO) was quite low in Circulars 3 and 4, and fish in those tanks were taken off feed. Tonseth said that even after feed was halted, DO remained depressed. He said that a decision was made to release Circular 2 due to the disease issue; and because of the low DO in Circulars 3 and 4 and increasing disease in Circular 1, all tanks were ultimately released a few days earlier than planned. Tonseth said that Rogers is developing a pathology report, and once available, will be distributed to the Hatchery Committees for discussion. Alene Underwood added that the water seemed turbid, but there is no indication why. Tonseth noted that the fish health issues were first observed around the same time that Chelan Falls Powerhouse had issues. Underwood said that the facility had recently experienced generator issues and it was not realized that the pump was down for an extended amount of time. She also added that Chelan PUD is now discussing a supplemental oxygen system to avoid a similar situation in the future. Tonseth said that 2013 summer Chinook practices are being compared to those executed in 2012 to identify any differences. He said that low DO was only experienced in Circulars 3 and 4, and added that in addition to BGD, erythrocytic inclusion body syndrome (EIBS), or anemia in fish, was also observed.

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Tonseth recalled that EIBS had previously been detected in fish at the Eastbank Annex; however, it had no significant impacts on the fish. He added that although fish at the Eastbank Annex had EIBS, fish at the Eastbank Hatchery did not. Underwood said that even with the loss, program goals were still met.

## **VI. HCP Administration**

### ***A. Next Meetings***

The next scheduled Hatchery Committees' meetings are on May 15, 2013 (Douglas PUD office), June 19, 2013 (Chelan PUD office), and July 17, 2013 (Douglas PUD office).

### **List of Attachments**

Attachment A	List of Attendees
Attachment B	Douglas PUD's final SOA approving the Monitoring and Evaluation for PUD Hatchery Programs: 2013 Update
Attachment C	Chelan PUD's final SOA approving the Revised Analytical Framework 5-Year Update
Attachment D	Final SOA for the Carlton Acclimation Facility Capacity Utilization
Attachment E	Chelan PUD's Plan for Dryden TMDL Compliance
Attachment F	Methods for Estimating Likely Programmatic Outcomes for Broodstock Collection Targets Presentation



**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe	Anchor QEA, LLC
Kristi Geris	Anchor QEA, LLC
Alene Underwood*	Chelan PUD
Joe Miller	Chelan PUD
Greg Mackey*	Douglas PUD
Peter Graf	Grant PUD
Keely Murdoch*	Yakama Nation
Kirk Truscott*	Colville Confederated Tribes
Lynn Hatcher*	National Marine Fisheries Service
Bill Gale*	U.S. Fish and Wildlife Service
Mike Tonseth*	Washington Department of Fish and Wildlife

Notes:

\* Denotes Hatchery Committees member or alternate

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