

FINAL MEMORANDUM

To: Wells, Rocky Reach, and Rock Island HCPs
Coordinating Committees

From: John Ferguson, HCP Coordinating Committees
Chairman

Cc: Kristi Geris

Re: Final Minutes of the January 26, 2016, HCP Coordinating Committees Meeting

The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Coordinating Committees met at the Radisson Gateway Hotel, in SeaTac, Washington, on Tuesday, January 26, 2016, from 9:30 a.m. to 12:00 p.m. Attendees are listed in Attachment A to these meeting minutes.

ACTION ITEM SUMMARY

- Douglas PUD will revise the Subyearling Chinook Salmon Life-history Study dates in the draft 2016 Wells HCP Action Plan, as discussed, and will provide the final plan to Kristi Geris for distribution to the Coordinating Committees (Item III-A).
(Note: Tom Kahler revised the plan, as discussed, and provided the final plan to Geris on January 27, 2016, which Geris distributed to the Coordinating Committees that same day.)
 - Douglas PUD will consider revising the historical flows language in the Draft 2016 Wells Dam Gas Abatement Plan (GAP) and Bypass Operating Plan (BOP), as discussed, and will provide the final plan, when available, to Kristi Geris for distribution to the Coordinating Committees (Item III-B). *(Note: The historical flow language was revised, as requested, as distributed to the Coordinating Committees by Geris on February 10, 2016.)*
 - Douglas PUD will provide photographs of the lamprey entrance boxes installed in the low-level entrances at Wells Dam to Kristi Geris for distribution to the Coordinating Committees (Item III-C). *(Note: Tom Kahler provided a photograph of the lamprey entrance boxes to Geris on January 29, 2016, which Geris distributed to the Coordinating Committees that same day.)*
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- Chelan PUD will discuss with Dr. John Skalski (Columbia Basin Research) possibly adjusting the Data Access in Real Time (DART) database outputs to better capture the early portion (prior to June 1) of the annual subyearling Chinook salmon counts at the Rock Island Bypass (Item IV-A).
 - Chelan PUD will add expected dates to receive Hatchery and Genetic Management Plan (HGMP) permits from the National Marine Fisheries Service (NMFS) to the Draft 2016 Rocky Reach and Rock Island HCP Action Plans, as discussed, and will provide the revised draft plans to Kristi Geris for distribution to the Coordinating Committees. Chelan PUD will request approval of the revised draft plans during the Coordinating Committees meeting on February 23, 2016 (Item IV-B). *(Note: Lance Keller updated the draft action plans, as discussed, and provided the revised draft plans to Kristi Geris on February 22, 2016, which Geris distributed to the Coordinating Committees that same day.)*
 - Chelan PUD will develop a trip report regarding progress on the refurbishing of the Rock Island Dam right fish ladder sluice gate, RO4, following a site visit to the contractor's facilities in Massachusetts, and will provide the report to Kristi Geris for distribution to the Coordinating Committees (Item IV-C). *(Note: Lance Keller provided a trip report to Kristi Geris on February 22, 2016, which Geris distributed to the Coordinating Committees that same day.)*
 - Chelan PUD will summarize potential operations scenarios for the Rock Island Dam right fish ladder operating with a bulkhead installed in place of the sluice gate, RO4, including potential effects on salmonid passage past the dam, and will provide the summary to Kristi Geris for distribution to the Coordinating Committees (Item III-C).
 - Chelan PUD will provide weekly reports on the progress of repairing and installing the Rock Island Dam right fish ladder sluice gate, RO4, to Kristi Geris for distribution to the Coordinating Committees (Item IV-C). *(Note: Lance Keller provided weekly reports, as requested, on February 4, 16, and 22, 2016, which Geris distributed to the Coordinating Committees those same days.)*
 - Chelan PUD will notify the Coordinating Committees when the last denial structure is removed from the Rock Island Dam fishways (Item IV-D). *(Note: Lance Keller provided a notification that denial removal was completed to Kristi Geris on February 16, 2016, which Geris distributed to the Coordinating Committees that same day.)*
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- John Ferguson will discuss with Denny Rohr (Priest Rapids Coordinating Committee [PRCC] Facilitator) possibly holding both the PRCC and Coordinating Committees June 2016 meetings on June 21, 2016, and holding the 2016 Subyearling Chinook Salmon Workshop the next day on June 22, 2016 (Item V-A). *(Note: Ferguson discussed the topic with Rohr following the Coordinating Committees meeting on January 26, 2016.)*
- John Ferguson will communicate developing details about the 2016 Subyearling Chinook Salmon Workshop to the Coordinating Committees during the monthly Coordinating Committees meetings (Item V-A).
- Kristi Geris will contact Julene McGregor (Douglas PUD Information System Staff) to request member access to the HCP Hatchery Committees Extranet site for Deanne Pavlik-Kunkel (Grant PUD), as approved by the Coordinating Committees, and will coordinate with Sarah Montgomery (HCP Hatchery Committees support staff) about adding Pavlik-Kunkel to the requested HCP Hatchery Committees email distribution lists (Item VI-A). *(Note: Geris contacted McGregor and Montgomery following the Coordinating Committees meeting on January 26, 2016, about getting Pavlik-Kunkel Extranet access and on the distribution lists.)*
- **The Coordinating Committees meeting on February 23, 2016, will be held in-person at the Radisson Hotel in SeaTac, Washington (Item VI-C).**

DECISION SUMMARY

- The Wells HCP Coordinating Committee representatives present approved the 2016 Wells HCP Action Plan, as revised (Item III-A).
- The Wells HCP Coordinating Committee representatives present approved the 2016 Wells Dam GAP and BOP, as revised (Item III-B).
- The Rocky Reach and Rock Island HCP Coordinating Committees representatives present approved the 2015 Rocky Reach and Rock Island Spill Report, as revised (Item IV-A).

AGREEMENTS

- The Rock Island HCP Coordinating Committee representatives present agreed to extend the 2015/2016 winter maintenance work period for the right fish ladder at
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Rock Island Dam by 15 days to allow more time to complete required work, contingent on Chelan PUD providing weekly reports on the progress of repairs. Rather than the typical March 1 completion date, the Rock Island right fish ladder will be fully operational by March 15, 2016 (Item IV-C).

- Coordinating Committees representatives present agreed to reschedule the Coordinating Committees meeting on June 28 to June 21, 2016, to accommodate the 2016 Subyearling Chinook Salmon Workshop (Item V-A).
- Coordinating Committees representatives present agreed to provide Deanne Pavlik-Kunkel member access to the HCP Hatchery Committees Extranet site, and add Pavlik-Kunkel to the requested HCP Hatchery Committees email distribution lists (Item VI-A).

REVIEW ITEMS

- Kristi Geris sent an email to the Coordinating Committees on January 22, 2016, notifying them that the Draft 2016 Rocky Reach and Rock Island HCP Action Plans were available for review. Chelan PUD will request approval of the draft plans during the Coordinating Committees meeting on February 23, 2016 (Item IV-B).
 - Kristi Geris sent an email to the Coordinating Committees on February 8, 2016, notifying them that the Draft 2015 Wells HCP Annual Report was available for a 30-day review, with edits and comments due to Geris by Monday, March 7, 2016 (Item VI-B).
 - Kristi Geris sent an email to the Coordinating Committees on February 11, 2016, notifying them that the Draft 2016 Rocky Reach and Rock Island Fish Spill Plan was available for a 32-day review, with edits and comments due to Lance Keller by Monday, March 14, 2016.
 - Kristi Geris sent an email to the Coordinating Committees on February 11, 2016, notifying them that the Draft 2016 Rocky Reach Juvenile Fish Bypass Operations Plan was available for a 32-day review, with edits and comments due to Lance Keller by Monday, March 14, 2016.
 - Kristi Geris sent an email to the Coordinating Committees on February 11, 2016, notifying them that the Draft 2016 Rock Island Bypass Monitoring Plan was available for a 32-day review, with edits and comments due to Lance Keller by Monday, March
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14, 2016.

- Kristi Geris sent an email to the Coordinating Committees on February 18, 2016, notifying them that the Draft 2015 Rocky Reach and Rock Island HCP Annual Reports were available for a 30-day review, with edits and comments due to Geris by Wednesday, March 16, 2016 (Item VI-B).

FINALIZED DOCUMENTS

- The Final 2016 Wells HCP Action Plan, which was approved by the Wells HCP Coordinating Committee on January 26, 2016, was distributed to the Coordinating Committees by Kristi Geris on January 27, 2016 (Item III-A).
- The Final 2015 Rocky Reach and Rock Island Spill Report, which was approved by the Rocky Reach and Rock Island HCP Coordinating Committees on January 26, 2016, was distributed to the Coordinating Committees by Kristi Geris on February 3, 2016 (Item IV-A).
- The Final 2016 Wells Dam GAP and BOP that was approved by the Wells HCP Coordinating Committee on January 26, 2016, and the Aquatic Settlement Work Group (SWG) on February 10, 2016, was distributed to the Coordinating Committees by Kristi Geris on February 10, 2016 (Item III-B).

I. Welcome

A. Review Agenda (John Ferguson)

John Ferguson welcomed the Coordinating Committees and asked for any additions or changes to the agenda. No additions or changes were requested from Coordinating Committees representatives present; however, Ferguson added an update on the 2015 HCP Annual Reports.

B. Meeting Minutes Approval (John Ferguson)

The Coordinating Committees reviewed the revised draft December 14, 2015, meeting minutes. Kristi Geris said all comments and revisions received from members of the Committees were incorporated into the revised minutes. She said she also noted distribution of the Final 2015 Wells Dam Post-Season Bypass Report to the Coordinating Committees on January 22, 2016, which was finalized following a 30-day review period that ended on

January 14, 2016, and that no comments were received from Coordinating Committees members on the draft report. Coordinating Committees members present approved the December 14, 2015, meeting minutes, as revised.

C. Last Meeting Action Items (John Ferguson)

Action items from the Coordinating Committees meeting on December 14, 2015, and follow-up discussions, were as follows. *(Note: italicized text corresponds to agenda items from the meeting on December 14, 2015):*

- *Chelan PUD will provide the Revised Draft 2015 Rocky Reach and Rock Island Spill Report to Kristi Geris for distribution to the Coordinating Committees, for approval during the Coordinating Committees meeting on January 26, 2016 (Item III-A).*
Lance Keller provided the revised draft report to Geris on January 22, 2016, which Geris distributed to the Coordinating Committees that same day. The revised draft plan will be further discussed during today's meeting.
- *Douglas PUD will provide the Draft 2015 Wells Dam Post-Season Bypass Report for review to Kristi Geris for distribution to the Coordinating Committees (Item IV-C).*
Tom Kahler provided the draft report to Geris on December 15, 2015, which Geris distributed to the Coordinating Committees that same day. The final report was distributed to the Coordinating Committees by Geris on January 22, 2016, following a 30-day review period.
- *Douglas PUD will provide the Draft 2016 Wells HCP Action Plan for review to Kristi Geris for distribution to the Coordinating Committees (Item IV-D).*
Tom Kahler provided the draft plan to Geris on December 21, 2015, which Geris distributed to the Coordinating Committees on December 22, 2015. The draft plan will be further discussed during today's meeting.

II. HCP Tributary and Hatchery Committees Update

A. HCP Tributary and Hatchery Committees Update (Tracy Hillman)

Tracy Hillman updated the Coordinating Committees on the following actions and discussions that occurred at the last HCP Tributary Committees meeting on January 7, 2016:

- *Time Extension:* The Rocky Reach HCP Tributary Committee approved a time extension request from Chelan Douglas Land Trust on the Entiat Stillwaters Gray Reach Acquisition Project. The extension, to June 30, 2016, provides additional time for negotiating on a pending property. The sponsor also asked the Rocky Reach HCP Tributary Committee if they would be willing to pay more than the appraised value for the pending property (\$25,000), because the property owner is asking for \$50,000 for the 8-acre parcel. The Rocky Reach HCP Tributary Committee declined to pay more than the appraised value.
- *2016 Wells HCP Tributary Committee Action Plan:* The Wells HCP Tributary Committee approved the tributary portion of the 2016 Wells HCP Action Plan. The 2016 Rocky Reach and Rock Island Action Plans will be reviewed during the next HCP Tributary Committees meeting.
- *Information Updates:* The HCP Tributary Committees discussed scheduling, and decided to continue meeting on the second Thursday of each month in 2016. The HCP Tributary Committees also discussed the project tours in Canada that some of the HCP Tributary Committee members attended last October 2015.
- *Next Steps:* The HCP Tributary Committees' next scheduled meeting will be on February 11, 2016. (*Note: the HCP Tributary Committees meeting on February 11, 2016, was canceled due to lack of agenda items.*)

Hillman updated the Coordinating Committees on the following actions and discussions that occurred at the last HCP Hatchery Committees meeting on January 20, 2016:

- *NMFS Consultation Update:* Craig Busack (NMFS HCP Hatchery Committees Representative) indicated many career transitions are occurring at NMFS. Will Stelle (NMFS Regional Administrator) is taking a different position, Bob Turner (NMFS Assistant Regional Administrator) is retiring, and Gary Sims (NMFS Tribal Relations Coordinator) is also retiring. NMFS hired two, new term positions and will recruit two more to help with the workload resulting from consultations. Busack will become the NMFS HCP Hatchery Committees Alternate and Justin Yeager (NMFS HCP Tributary Committees Representative and Coordinating Committees Alternate) will become the NMFS HCP Hatchery Committees Representative. Rob Jones (NMFS Anadromous Production and Inland Fisheries Branch Chief) will provide a letter to
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the Coordinating Committees notifying the Committees of these changes (likely within the next couple of months). Busack also indicated, on January 13, 2016, The Wild Fish Conservancy filed a 60-day Notice of Intent to Sue NMFS and the Department of Commerce for funding Mitchell Act hatchery program, so NMFS is preparing for this lawsuit, which will likely develop in March 2016. Busack is working to complete the Environmental Impact Statement (EIS) for Puget Sound steelhead programs. Completion of this EIS is needed to release steelhead into Puget Sound in 2016. The NMFS Methow Spring Chinook Salmon Consultation is on track for completion by May 2016, so long as the U.S. Fish and Wildlife Service Bull Trout Consultation is completed on time. John Ferguson asked about The Wild Fish Conservancy's objectives with the suit over the Mitchell Act programs. Hillman said Busack explained that NMFS is responsible to fund programs and license hatchery programs, and The Wild Fish Conservancy is claiming NMFS is not meeting the funding obligation. The Wild Fish Conservancy may also sue NMFS based on the licensing of programs (among the approximate 51 programs, only 11 have Endangered Species Act authorization).

- *Five-Year Hatchery Monitoring and Evaluation (M&E) Review Planning – Review Timeline; Objectives 4, 6, and 2:* The HCP Hatchery Committees continued their review of the Five-Year Hatchery M&E Plan Report. So far, everything is on schedule to complete the review of spring Chinook salmon by the end of March 2016. Recall from last month's update, regarding Objective 4 (hatchery replacement rates [HRRs]), the HCP Hatchery Committees approved using the 20th percentile method for calculating HRR targets (harvest not included). However, based on a misunderstanding, an HCP Hatchery Committees representative had an issue with using the 20th percentile method, so the HCP Hatchery Committees discussed it, and now approved using the 40th percentile method (harvest included). With the 20th percentile method, it would have been acceptable for a program to perform below average every year without triggering any remedial action; however, with the 40th percentile method this would be unlikely to happen. With regard to Objective 6 (size at release), it was determined there is no best size at release that optimizes across all management goals. One study using White River spring Chinook salmon was reviewed, where growth was kept low during fall and winter to reduce the
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probability of precocious maturation; then after February, growth was maximized to reduce predation-based mortality and increase survival. Study fish have not yet returned as adults, so results are pending. The HCP Hatchery Committees decided to maintain the same size-at-release targets, and reevaluate the targets once study results are available. Ferguson asked when the adults will return, and Kirk Truscott guessed around 2017 or 2018.

- *2016 Wells HCP Action Plan:* The Wells HCP Hatchery Committee reviewed and approved the hatchery portion of the 2016 Wells HCP Action Plan.
 - *2016 Rocky Reach and Rock Island HCP Action Plans:* The Rocky Reach and Rock Island HCP Hatchery Committees reviewed the hatchery portion of the 2016 Rocky Reach and Rock Island HCP Action Plans. Chelan PUD will request approval of the draft plans during the HCP Hatchery Committees meeting on February 17, 2016.
 - *Brood Year (BY) 2014 Methow Spring Chinook Salmon Acclimation:* Chelan PUD currently has approximately 60,000 BY 2014 spring Chinook salmon at Methow Fish Hatchery, with preferred acclimation at the Chewuch Acclimation Facility. The Yakama Nation (YN) has funding to operate this facility; however, details would need to be first discussed with the Colville Confederated Tribes (CCT). The alternative would be for the Washington Department of Fish and Wildlife (WDFW) to operate the facility; however, WDFW is not sure about the feasibility of this option. Three other options were identified: 1) release fish directly into the Methow River from the Methow Fish Hatchery (this option needs contracting, which is not yet in place); 2) truck plant the fish as far upstream in the Chewuch River Basin as possible (unsure about the feasibility to get a truck into the Upper Chewuch River Basin); and 3) final acclimate the fish at Carlton Pond (not much support for this option because these fish were obtained via tangle netting in the Chewuch River, so the preference is to release progeny back to the Chewuch River). Truscott said the CCT have no updates at this time, but hope to provide feedback to the HCP Hatchery Committees by Friday, January 29, 2016. Hillman said the Chewuch Acclimation Facility is also in need of upgrades, which the YN and Chelan PUD are discussing.
 - *Wenatchee Summer Chinook Salmon Draft Statement of Agreement (SOA):* Chelan PUD provided a presentation about intentions to design a partial water reuse aquaculture system at Eastbank Fish Hatchery to help Chelan PUD meet the dissolved
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oxygen and pH total maximum daily load (TMDL) requirements in the Wenatchee River. Chelan PUD has been conducting baseline studies, including testing different fish feeds with varying levels of phosphorus, testing circular tanks, evaluating size and number of fish at release, and measuring baseline phosphorus levels in the Wenatchee River and at Dryden Acclimation Facility before, during, and after fish are on station. Chelan PUD distributed a draft SOA, which addresses meeting the phosphorus TMDL by modifying feed and reducing waste, and rearing fish to a smaller size. The latter involves colder overwinter temperatures at Eastbank Fish Hatchery, which will require modifications to the Eastbank Fish Hatchery. Chelan PUD believes they can meet the phosphorus TMDL requirements with these modifications. Chelan PUD will request approval of the SOA during the HCP Hatchery Committees meeting on February 17, 2016.

- *Next Meeting:* The HCP Hatchery Committees' next scheduled meeting will be on February 17, 2016.

III. Douglas PUD

A. DECISION: Draft 2016 Wells HCP Action Plan (Tom Kahler)

Tom Kahler said Kristi Geris sent an email to the Coordinating Committees on December 22, 2015, notifying them that the Draft 2016 Wells HCP Action Plan was available for review, and that Douglas PUD will request approval of the document during the Coordinating Committees meeting on January 26, 2016. Kahler asked if the Coordinating Committees members have questions before voting on the draft plan. He added that the plan is routine and similar to previous years.

Bob Rose asked about the items under, "Annual Monitoring of Juvenile Migration Run Timing and Bypass Operations." Kahler recalled that this is the analysis Drs. John Skalski and Richard Townsend (Columbia Basin Research) conduct every year to determine if Wells Dam bypass operations met juvenile migration run timing criteria, as outlined in the Wells HCP.

John Ferguson asked about the Subyearling Chinook Salmon Life-history Presentation to the Coordinating Committees scheduled in February 2016. Kahler said Douglas PUD is now

planning to provide that presentation during the 2016 Subyearling Chinook Salmon Workshop, and will also adjust final approval of the associated report accordingly. Kirk Truscott asked if these dates can be updated in the final plan, and Kahler agreed to do this.

The Wells HCP Coordinating Committee representatives present approved the 2016 Wells HCP Action Plan, as revised. Kahler said he will revise the Subyearling Chinook Salmon Life-history Study dates in the draft 2016 Wells HCP Action Plan, as discussed, and will provide the final plan to Geris for distribution to the Coordinating Committees.

(Note: Kahler revised the plan, as discussed, and provided the Final 2016 Wells HCP Action Plan to Geris on January 27, 2016, which Geris distributed to the Coordinating Committees that same day.)

B. Draft 2016 Wells Dam Gas Abatement Plan and Bypass Operating Plan (Tom Kahler)

Tom Kahler said Kristi Geris sent an email to the Coordinating Committees on January 6, 2016, notifying them that the Draft 2016 Wells Dam GAP and BOP was available for review, with edits and comments due to Kahler by Wednesday, February 10, 2016. Kahler explained that the new Wells Project Federal Energy Regulatory Commission (FERC) License No. 2149 issued in 2012, mandated Douglas PUD combine the GAP and BOP into one document, and provide the Wells HCP Coordinating Committee the opportunity to consult on both plans. He said, however, Douglas PUD is only required to obtain Wells HCP Coordinating Committee approval of the BOP. He explained that Appendix 1 of the GAP and comprises the Spill Playbook, and the BOP is Appendix 2. He said, in addition to Wells HCP Coordinating Committee approval of the BOP, the full document (2016 Wells Dam GAP and BOP) also needs to be approved by the Washington State Department of Ecology and the Aquatic SWG, prior to submittal of the final approved document to FERC by the end of February 2016.

Bob Rose asked if the Draft 2016 Wells Dam GAP and BOP is different than last year's Final 2015 Wells Dam GAP and BOP. Kahler said the Final 2015 Wells Dam GAP and BOP used Spillway 5 as the primary spill while Turbine Unit 7 was still under repair. He said, this year, repairs to Turbine Unit 7 are now complete, so the Draft 2016 Wells Dam GAP and

BOP moves the spill configuration back to the original configuration (via Spillway 7), which is based on University of Iowa scale model testing. He said other than that, the plans are exactly the same.

Jim Craig said he has one minor comment on the GAP, Section 1.3.1 Historical Flows, second to the last sentence:

“The current hydrograph of the Columbia River is controlled by upstream, federally managed storage and release regimes, but typically mimics historic flow regimes (Figure 2).”

He suggested revising, “typically mimics historical flow regimes,” because throughout history, flow regimes have been vastly altered; therefore, the current hydrograph does not actually mimic historical hydrographs, but rather, mimics the average hydrograph since 1969. Kahler said he will pass Craig’s comment onto the author of the document (Andrew Gingerich, Douglas PUD Aquatic SWG Technical Representative). *(Note: The historical flow language was revised, as requested, as distributed to the Coordinating Committees by Geris on February 10, 2016.)*

Kirk Truscott asked if shifting spill to Spillway 7 could impact the volume of spill in Spillway 2, where the new passive integrated transponder (PIT)-tag array will be installed to detect juveniles passing Wells Dam. Kahler said the shift will not change spill volume through Spillway 2; however, it may change the bulk flow characteristics of the project. He added that this shift will only occur during forced spill events, and reiterated this is the same historical configuration implemented prior to taking Turbine Unit 7 offline for repairs. He said the previous studies, which indicated a greater proportion of fish pass Wells Dam via Bypass Bay 2, were conducted before the University of Iowa scale model testing and various relicensing spill studies. He added, he is uncertain about what records Douglas PUD has for spill configurations from that era, so there may be no way to compare historical spill to current spill configurations. Truscott said his only concern is that installing PIT-tag detection in Bypass Bay 2 was designed to provide useful information, and he wants to make sure shifting spill to Spillway 7 will not impact that effort. He added there may be no way to know. Kahler explained that the reason PIT-tag detection is being installed in Bypass Bay 2 is because Spillway 2 and 10 are top spill and fish seem to be more attracted to top spill

versus bottom spill. He said all other spillways at Wells Dam are bottom spill. He said the fact that Bypass Bay 2 is top spill and fish seem to prefer passing Wells Dam via Bypass Bay 2 will not change. He said, however, once the forebay drops below a certain elevation, spill has to drop to bottom spill. He said Douglas PUD could outfit another spillway with PIT-tag detection; however, they first want to test detection on surface spill. He said PIT-tag detection could be installed in Spillway 10; however, Spillway 10 has historically passed fewer fish than Spillway 2. He said Douglas PUD also does not intend to install antennas throughout all of Spillway 2, which would require installing 64 antennas equaling at least \$500,000 or more. He added that historical data indicate fish pass higher in the water column, and there are also logistical issues for establishing detection in the lowest bypass frames. Kahler asked Truscott if he would like Kahler to investigate this further, and Truscott said the information provided will suffice.

Kahler asked if the Wells HCP Coordinating Committee was ready to vote now, or preferred to vote via email on February 10, 2016, following the close of the review period. He also suggested, if the Wells HCP Coordinating Committee agrees, to vote on the entire document. John Ferguson agreed this would simplify the administrative record. The Wells HCP Coordinating Committee representatives present approved the 2016 Wells Dam GAP and BOP, as revised.

C. Wells Dam Fish Ladder Maintenance (Tom Kahler)

Tom Kahler reviewed maintenance updates at Wells Dam, as follows:

West Fishway

Kahler said the west fishway at Wells Dam has been offline for annual winter maintenance since December 1, 2015, and will be re-watered and in full operation by Thursday, January 28, 2016. He said major maintenance activities include: 1) work on the auxiliary water supply (AWS) pumps; 2) LGL Limited checked all radio-telemetry antennas; 3) the lamprey entrance box was installed in the low-level side entrance; 4) Biomark installed a PIT-tag detection system for the lamprey entrance box; 5) the lamprey enumeration structure (LES) is being assembled to install in the count window; and 6) nylon brushes are being installed to fill gaps in the fishway. Kahler added that installation of the lamprey

entrance box went as planned, and he will provide photographs of the installed lamprey entrance box to Kristi Geris for distribution to the Coordinating Committees. Kahler said, regarding the LES, all parts have not yet been received; however, the LES can be installed during a routine outage for count-window cleaning. *(Note: Kahler provided a photograph of the lamprey entrance boxes to Geris on January 29, 2016, which Geris distributed to the Coordinating Committees that same day.)*

East Fishway

Kahler said the east fishway at Wells Dam will be taken offline for annual winter maintenance next Tuesday, February 2, 2016. He said a 2-day fish rescue will be conducted on February 2 and 3, 2016. He said all lamprey modifications completed in the west fishway will also be installed in the east fishway. He said the east fishway outage will be short and should be complete by the end of February 2016.

John Ferguson noted that the Aquatic SWG plans to hold their monthly meeting at Wells Dam on Wednesday, February 10, 2016, with a tour of the fishways to follow. Kahler said, although the tour is for the Aquatic SWG, Coordinating Committees representatives are also welcome to join, if interested.

Bypass Bay 2

Kahler said, as previously discussed, Douglas PUD is also working with Biomark to install a bypass antenna system in Bypass Bay 2 at Wells Dam. Kahler said Biomark developed a prototype antenna that will first be installed in one frame of Bypass Bay 2 to iron out details such as how to position and anchor the antenna, conduct noise testing, determine an exact location for the reader, and determine the location of fiber and power runs to the reader, among other things. Kahler explained that currently at Wells Dam, all detection systems are geared toward adults. He said this new system will be the first juvenile detection system at Wells Dam, which will upload to the PIT-Tag Information System database separately from the adult detection system. He said, once all testing is complete using the prototype antenna, Biomark will build another three antennas to install in Bypass Bay 2 at Wells Dam before the initiation of bypass operations on April 9, 2016. He said Douglas PUD plans to conduct fish

testing, likely with summer Chinook salmon from Wells Fish Hatchery, which will involve releasing fish upstream of Bypass Bay 2 or near the debris boom to test detection.

Bob Rose said the plans seem to be on a somewhat aggressive schedule, and Kahler said Biomark is planning to meet the March 2016 deadline. Kahler added that this project has been on Biomark's schedule for quite a while now.

IV. Chelan PUD

A. DECISION: Revised Draft 2015 Rocky Reach and Rock Island Spill Report (Lance Keller)

Lance Keller said the Revised Draft 2015 Rocky Reach and Rock Island Spill Report was distributed to the Coordinating Committees by Kristi Geris on January 22, 2016. Keller recalled, during the last Coordinating Committees meeting on December 14, 2015, Kirk Truscott identified a mislabeling of the graph for summer spill at Rock Island Dam, and also requested on the same graph that Chelan PUD depict the front-end tail of subyearling passage. Keller said the mislabeling was corrected, as requested. He said he has not yet discussed with Dr. John Skalski possibly adjusting the DART database outputs to better capture the early portion (prior to June 1) of the annual subyearling Chinook salmon counts at the Rock Island Bypass; however, Keller said he ran an expansion to depict the front-end tail, as requested. He said the first subyearling was detected on May 3, 2015, and then the tail is flat until a sharp uptick on June 1, 2015, when hatchery releases arrived. He said from May 3 to May 31, 2015, a total of 23 fish were identified, which are now depicted by the expansion. Truscott said the revisions adequately address his comments. Keller said he still plans to discuss with Dr. John Skalski possibly adjusting the DART database outputs to better capture the early portion (prior to June 1) of the annual subyearling Chinook salmon counts at the Rock Island Bypass.

The Rocky Reach and Rock Island HCP Coordinating Committees representatives present approved the 2015 Rocky Reach and Rock Island Spill Report, as revised. The Final 2015 Rocky Reach and Rock Island Spill Report was distributed to the Coordinating Committees by Geris on February 3, 2016.

B. Draft 2016 Rocky Reach and Rock Island HCP Action Plans (Lance Keller)

Lance Keller said the Draft 2016 Rocky Reach and Rock Island HCP Action Plans were distributed to the Coordinating Committees by Kristi Geris on January 22, 2016. Keller said, as Tracy Hillman noted, the hatchery portion of the draft plans have already been reviewed and approved by the HCP Hatchery Committees, and the HCP Tributary Committees will review the tributary portion of the draft plans during their next meeting on February 11, 2016. Keller said the draft 2016 plans are essentially the same as the 2015 plans. He said, with regard to the Coordinating Committees, there is one new item, which is a 2016 Subyearling Chinook Salmon Workshop. He explained that Chelan PUD has an SOA that maintained subyearling Chinook salmon in Phase III (Additional Juvenile Studies) until 2016, at which time Chelan PUD needs to annually assess improvements in tag technology and study design to evaluate survival study feasibility (approved by the Rocky Reach and Rock Island HCP Coordinating Committees on June 25, 2013). Keller said this will be further discussed during today's meeting.

Jeff Korth suggested including, under the hatchery portion of the draft plans, expected dates to receive HGMP permits from NMFS. Keller said he will coordinate with the Chelan PUD HCP Hatchery Committees representatives regarding adding these dates, as requested, and will provide the revised draft plans to Geris for distribution to the Coordinating Committees. Chelan PUD will request approval of the revised draft plans during the Coordinating Committees meeting on February 23, 2016.

C. Rocky Reach and Rock Island Adult Fish Ladder Winter Maintenance (Lance Keller)

Lance Keller reviewed maintenance updates at Rocky Reach Dam and Rock Island Dam, as follows:

Rocky Reach Dam

Keller said the fish ladder at Rocky Reach Dam was taken offline for annual winter maintenance on January 4, 2016. He said the upper end of the fish ladder was dewatered first and a fish rescue was conducted. He said on January 8, 2016, the lower end of the fish ladder was dewatered and another fish rescue was conducted. He said maintenance is going well, and no major issues have been identified. He did note, however, during the fish rescue on January 4, 2016, while monitoring for fish stranding, a fishway attendant discovered

22 adult lamprey beneath the diffuser grating in Weir A13. Keller said the grating was removed and all 22 fish were rescued and released into the Rocky Reach forebay. He said Chelan PUD now plans to replace the 1-inch diffuser grating floors in Weirs A10 to A13 with 3/4-inch grating. He said Rocky Reach Dam engineers indicated this change in grating width should not affect hydraulic conditions through the area. Keller said he also discussed a possible winter maintenance period extension with Scott Carlon and Jim Craig; however, the current estimated time of arrival (ETA) for the new grating is by the end of January 2016, which should allow enough time to install the new grating within the normal maintenance period. Keller said if an extension is needed, Chelan PUD will request Rocky Reach HCP Coordinating Committee approval via email.

Bob Rose said this seems to be a unique situation, as this many lamprey have not been discovered in the past. Keller agreed, and he added that the lamprey were scanned for half-duplex PIT-tags; however, no tags were detected. Jeff Korth asked if it seemed the lamprey accessed the area and then became trapped. Keller said he was unsure and suggested they may have accessed the area to overwinter there. Carlon asked if fish overwintering in that area typically leave in the spring, and Keller said there is no way to know unless the ladder remains watered up all year-round. Keller added that the lamprey were found in very dark crevices, which may suggest overwintering. Rose asked about the other fish species encountered during the fish rescue. Keller said other species included, chiselmouth, six to seven sculpins, and rainbow trout/steelhead.

Rock Island Dam

Keller recalled that at Rock Island Dam, up to two ladders can be offline for maintenance, so long as one ladder remains operational for fish passage at all times.

Left Ladder

Keller said the left ladder at Rock Island Dam was taken offline for annual winter maintenance on January 5, 2016. He said a fish rescue was conducted, and very few fish were found. He said activities included: 1) general maintenance; 2) removal of the denil structure; and 3) filling of the in-water modifications where concrete was split to provide swim-through passage (reconstructed back to normal).

Middle Ladder

Keller said the middle ladder at Rock Island Dam was taken offline for annual winter maintenance on December 15, 2015. He said the middle ladder had the shortest outage of the three ladders at Rock Island Dam. He said activities included: 1) general maintenance; and 2) inspections on the diffusion gratings and valves. Keller said the middle ladder was returned to service on December 30, 2015.

Right Ladder

Keller said the right ladder at Rock Island Dam was taken offline for annual winter maintenance on December 1, 2015. He said the right ladder is the longest outage this year at Rock Island Dam. He said the main maintenance activity on the right ladder is the refurbishing of the AWS sluice gate, RO4, which is at the end of its lifespan. He explained that RO4 is a fine-scale, auto-adjusting gate, which adjusts based on elevations to maintain the right ladder in compliance as far as differentials at the fishway entrances. Keller said Chelan PUD worked with the contractor to develop a schedule for repair. He said the sluice gate was removed on December 10, 2015, which needed to be chiseled out, and will need to be grouted back in once returned. He said the gate was shipped to the contractor (located in Massachusetts) on December 11, 2015. He said, on December 14, 2015, Rock Island Dam staff noticed a fibrous material around the existing gasket where the gate had been removed. He said the material tested positive for asbestos, so Chelan PUD notified the contractor that there is asbestos in the gate, which added 12 days to the repair schedule. Keller said Chelan PUD periodically checked in with the contractor via email on progress of repair of the 60-inch-by-60-inch sluice gate, with no response. He said on December 21, 2015, Chelan PUD received an email from the contractor indicating they lost part of the gate in a snow bank. Keller said Chelan PUD is still waiting for a report on what repairs are still needed, and based on the current timeline, Chelan PUD is not optimistic the refurbished gate will be received before the end of the winter maintenance period. He said Chelan PUD is now engaging in weekly conference calls with the contractor, including with its Chief Executive Officer, to emphasize how important this gate is to the operation of Rock Island Dam. Keller said Chelan PUD is also sending the lead mechanic and engineer to the contractor's facility in Massachusetts to help move the process forward. He added that Chelan PUD will develop a

trip report regarding progress on the refurbishing of the Rock Island Dam right fish ladder sluice gate, RO4, following the site visit to the contractor's facilities in Massachusetts, and will provide the report to Kristi Geris for distribution to the Coordinating Committees.

(Note: Keller provided a trip report to Geris on February 22, 2016, which Geris distributed to the Coordinating Committees that same day.)

Jim Craig noted that heavy snowfall had not even occurred along the east coast until just lately. Keller agreed, and said Chelan PUD is extremely frustrated with the contractor at this time. He added that if the ladder is operated without RO4 installed, this may result in operations out of compliance. Craig asked if staff can manually regulate flow conditions in the ladder to meet criteria, and Keller said the ladder cannot be manually fine-tuned without the gate. Keller said Chelan PUD also considered requesting that the contractor return the gate, as is; however, Rock Island Dam engineers were not confident the gate would be returned in proper working order (considering the gate had been disassembled and parts lost).

Keller said, considering all of this, Chelan PUD is requesting an extension of the 2015/2016 winter maintenance work period at Rock Island Dam by 15 days (from March 1 to March 15, 2016). He said the left and center ladders will be watered up and fully operational, and added that Thad Mosey (Chelan PUD Fish Biologist) believes steelhead and spring Chinook salmon migrating during that time will find alternate passage routes via the left and middle ladders. Keller said the extension will allow time for Chelan PUD to receive the refurbished gate from the contractor (ETA third week in February 2016), install the gate, and ensure all ladders are in criteria for the 2016 adult fish passage season. He said if the ladder is watered up without installing the gate, the ladder will need to be taken offline again to install the gate at a later date. He said this option is not preferred, considering 70% of adults pass Rock Island Dam via the right ladder. Korth asked about fish passage numbers on March 15, and Keller said there are few and numbers increase in April.

Korth asked who the original contractor is who built the gate, and Keller said he does not have that information available. Keller said Chelan PUD did consider fabricating a new gate; however, this option would cost approximately \$50,000 to \$60,000 and would take 6 to

8 months to fabricate, which was not an option at this point. Korth said this information addressed his comment. Craig asked if Chelan PUD has previously worked with this contractor in Massachusetts, and Keller said they have, and have mixed reviews. Keller said, however, he understands that this particular contractor is the only option for this type of work.

Kirk Truscott asked if the gate is returned in disrepair or cannot be installed, what might be the impacts to adult passage on the right ladder in absence of the sluice gate. Keller said he is not sure, and suggested possibly installing a bulkhead in place of the sluice gate; however, he is uncertain what that would look like in terms of head differentials. He said Chelan PUD will summarize potential operations scenarios for the Rock Island Dam right fish ladder operating with a bulkhead installed in place of the sluice gate, RO4, including potential effects on salmonid passage past the dam, and will provide the summary to Geris for distribution to the Coordinating Committees.

The Rock Island HCP Coordinating Committee representatives present agreed to extend the 2015/2016 winter maintenance work period for the right fish ladder at Rock Island Dam by 15 days to allow more time to complete required work, contingent on Chelan PUD providing weekly reports on the progress of repairs. Rather than the typical March 1 completion date, the Rock Island right fish ladder will be fully operational by March 15, 2016. Chelan PUD will provide weekly reports on the progress of repairing and installing the Rock Island Dam right fish ladder sluice gate, RO4, to Geris for distribution to the Coordinating Committees. *(Note: Lance Keller provided weekly reports, as requested, on February 4, 16, and 22, 2016, which Geris distributed to the Coordinating Committees those same days.)*

D. Rock Island Denil Removal (Lance Keller)

Lance Keller recalled that the initial plan was to first remove the right ladder tailrace entrance denil structure (i.e., TRE; the one installed against bedrock), followed by the left powerhouse entrance denil structure (LPE), and then move across the tailrace to remove the left ladder denil structures. He said, however, due to the extended unit outage, the schedule was flip-flopped and the LPE was removed first. He said he does not know the exact LPE removal date; however, based on the TRE removal date of January 17, 2016, he estimated the

LPE was removed sometime between January 8 and January 12, 2016. He said removal of the TRE took longer than removal of the LPE because strict flow regimes from upstream were required to complete the work and were difficult to maintain. He said Rock Island Dam operators had to start spill to reduce headwater, and once divers were in the water, operators had to start Turbine Unit 4 to produce a velocity jet to shield the divers. He said operations were moved to nighttime hours in order to complete the work. He said crews have now moved to the left ladder to begin removing the upper and lower denil extensions on the left bank. He said work will likely begin today, January 26, 2016, which will also involve in-water work to remove the denil structures. He said Chelan PUD will notify the Coordinating Committees when the last denil structure is removed from the Rock Island Dam fishways. *(Note: Keller provided a notification that denil removal was completed to Kristi Geris on February 16, 2016, which Geris distributed to the Coordinating Committees that same day.)*

V. Douglas PUD/Chelan PUD

A. 2016 Subyearling Chinook Salmon Workshop (John Ferguson/Tom Kahler/Lance Keller)

John Ferguson said, last fall 2015, Denny Rohr contacted him about holding another Subyearling Chinook Salmon Workshop. Ferguson said Rohr suggested holding the workshop in early 2016; however, this did not seem feasible. Ferguson said he and Rohr, along with Douglas PUD, Chelan PUD, and Grant PUD, further discussed the need for a 2016 Subyearling Chinook Salmon Workshop to update information discussed during the last Subyearling Chinook Salmon Workshop held in November 2009. Ferguson said the 2009 workshop was held at SeaTac, Washington, and convened members of the Coordinating Committees and PRCC, as well as regional expert guest presenters. He recalled discussing subyearling Chinook salmon life histories, tag technology and tag effects, and behavioral data, among other topics. He said, considering individual PUD schedules and requirements, it was agreed to convene a 2016 Subyearling Chinook Salmon Workshop sometime in May or June 2016. He said a subgroup has been formed to discuss possible agenda items, and Rohr plans to discuss the 2016 Subyearling Chinook Salmon Workshop with the PRCC during their meeting tomorrow on January 27, 2016.

Lance Keller said, as noted earlier, Chelan PUD has an SOA that maintained subyearling Chinook salmon in Phase III (Additional Juvenile Studies) until 2016. He said language in the 3-year SOA, which was approved in 2013, requires Chelan PUD to assess improvements in tag technology and study design to evaluate survival study feasibility at the expiration of the SOA. He said information discussed during the 2016 Subyearling Chinook Salmon Workshop will dictate how Chelan PUD moves forward with regard to subyearling Chinook salmon.

Tom Kahler recalled, that following the 2009 workshop, Douglas PUD discussed with the Coordinating Committees a path forward. He said Chelan PUD and Douglas PUD agreed to monitor PIT-tagged subyearling Chinook salmon in the Rocky Reach Reservoir for 1 year. He said, due to minimal data collected during this first year (few PIT-tagged subyearlings upstream of Rocky Reach Dam), Douglas PUD kicked off a 3-year subyearling Chinook salmon study. He said 1 additional year of monitoring data was also collected following the 3-year study, and the data are currently being compiled in a comprehensive subyearling Chinook salmon report. He agreed with Ferguson and Keller that it is time for an update on the state of science, and then determine a path forward.

Ferguson said May or June 2016 were chosen because those months are far enough away to make arrangements with guest speakers and get this workshop on the Coordinating Committees' and PRCC's schedules. He said the workshop will likely be an all-day event, and will likely be held at the Radisson at SeaTac, Washington. The Coordinating Committees discussed individual schedules and agreed to reschedule the Coordinating Committees meeting on June 28 to June 21, 2016, to accommodate the 2016 Subyearling Chinook Salmon Workshop. Ferguson said he will discuss with Rohr possibly holding both the PRCC and Coordinating Committees June 2016 meetings on June 21, 2016, and holding the 2016 Subyearling Chinook Salmon Workshop the next day on June 22, 2016.

(Note: Ferguson discussed the topic with Rohr following the Coordinating Committees meeting on January 26, 2016.)

Bob Rose suggested one central theme to discuss might be about what types of studies are feasible that will identify behavioral traits. He asked if behavioral traits can be identified to

help document assumptions, and what does that information look like. Ferguson agreed, and added that some sort of framework is needed. Kahler said he would like to schedule plenty of time for questions and answers with the presenters. He recalled, during the 2009 workshop, it seemed there was plenty of opportunity to distill the information, which was really helpful. He suggested scheduling even more discussion time during the 2016 workshop, including intermittent periods of discussion after individual topics, and then a collective discussion at the end of the workshop. Jeff Korth asked who is invited. Ferguson suggested holding a small enough workshop to facilitate valuable discussion; however, not to exclude too many people because this is an important topic. The Coordinating Committees discussed several options and decided to invite HCP representatives and alternates, not to exceed three to four people per agency. Ferguson also suggested making it clear this is a working workshop for the Coordinating Committees, and people invited should keep in mind the intent of the workshop.

Ferguson said he will communicate developing details about the 2016 Subyearling Chinook Salmon Workshop to the Coordinating Committees during the monthly Coordinating Committees meetings.

VI. HCP Administration

A. HCP-HC Distribution Lists and Extranet Access – Deanne Pavlik-Kunkel (Grant PUD)

John Ferguson said a request from Tracy Hillman, on behalf of Grant PUD, requesting that Deanne Pavlik-Kunkel be included on the HCP Hatchery Committees distribution list (Attachment B), was distributed to the Coordinating Committees by Kristi Geris on December 28, 2016. Ferguson reviewed the request, and Coordinating Committees representatives present agreed to provide Deanne Pavlik-Kunkel member access to the HCP Hatchery Committees Extranet site, and add Pavlik-Kunkel to the requested HCP Hatchery Committees email distribution lists. Geris said she will contact Julene McGregor to request member access to the HCP Hatchery Committees Extranet site for Deanne Pavlik Kunkel, as approved by the Coordinating Committees, and will and coordinate with Sarah Montgomery about adding Pavlik-Kunkel to the requested HCP Hatchery Committees email distribution lists. *(Note: Geris contacted McGregor and*

Montgomery following the Coordinating Committees meeting on January 26, 2016, about getting Pavlik-Kunkel Extranet access and on the distribution lists.)

Tom Kahler further explained that Grant PUD's interest in plugging in Pavlik-Kunkel to HCP Hatchery Committees discussions is that Grant PUD is a funding partner with Douglas PUD, for production of steelhead at Wells Hatchery and spring Chinook salmon at Methow Fish Hatchery; therefore, there is a lot of overlap in interests in results of HCP Hatchery Committees discussions. Kahler added that Pavlik-Kunkel is Todd Pearson's (Grant PUD) and Peter Graf's (Grant PUD) supervisor. Kirk Truscott added that Grant PUD also has summer Chinook salmon production with Chelan PUD at the Dryden Facility, so Grant PUD's interests spans multiple HCPs.

B. 2015 HCP Annual Reports

John Ferguson reminded the Coordinating Committees that the Draft 2015 Wells HCP Annual Report will be available for a 30-day review on Monday, February 8, 2016, and the Draft 2015 Rocky Reach and Rock Island HCP Annual Reports will be available for a 30-day review on Thursday, February 18, 2016.

C. Next Meetings

The next scheduled Coordinating Committees meeting is on February 23, 2016, to be held in-person at the Radisson Hotel in SeaTac, Washington. The March 22, 2016, and April 26, 2016, meetings will be held by conference call, in Eastern Washington, or in person at the Radisson Hotel in SeaTac, Washington, as is yet to be determined.

VII. List of Attachments

Attachment A	List of Attendees
Attachment B	Request to Include Deanne Pavlik-Kunkel to Hatchery Committees Distribution List

Attachment A
List of Attendees

Name	Organization
John Ferguson	Anchor QEA, LLC
Kristi Geris	Anchor QEA, LLC
Tracy Hillman††	BioAnalysts
Lance Keller*	Chelan PUD
Alene Underwood†††	Chelan PUD
Tom Kahler*	Douglas PUD
Scott Carlon*	National Marine Fisheries Service
Jim Craig*	U.S. Fish and Wildlife Service
Jeff Korth*	Washington Department of Fish and Wildlife
Bob Rose*	Yakama Nation
Kirk Truscott*†	Colville Confederated Tribes

Notes:

- * Denotes Coordinating Committees member or alternate
 - † Joined by phone
 - †† Joined by phone for the HCP Tributary and Hatchery Committees Update
 - ††† Joined by phone for the Chelan PUD agenda items
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